

FIG. 1

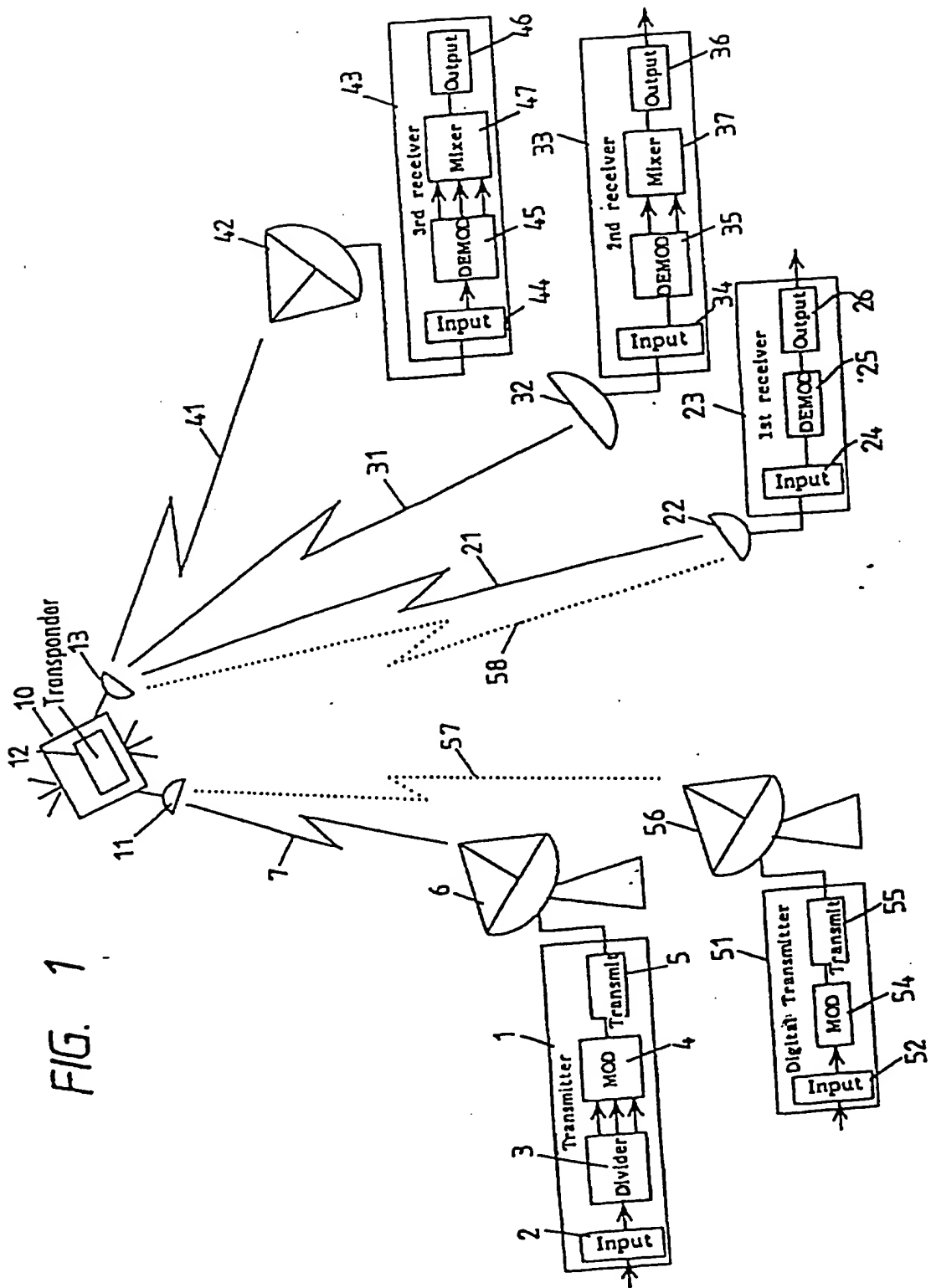
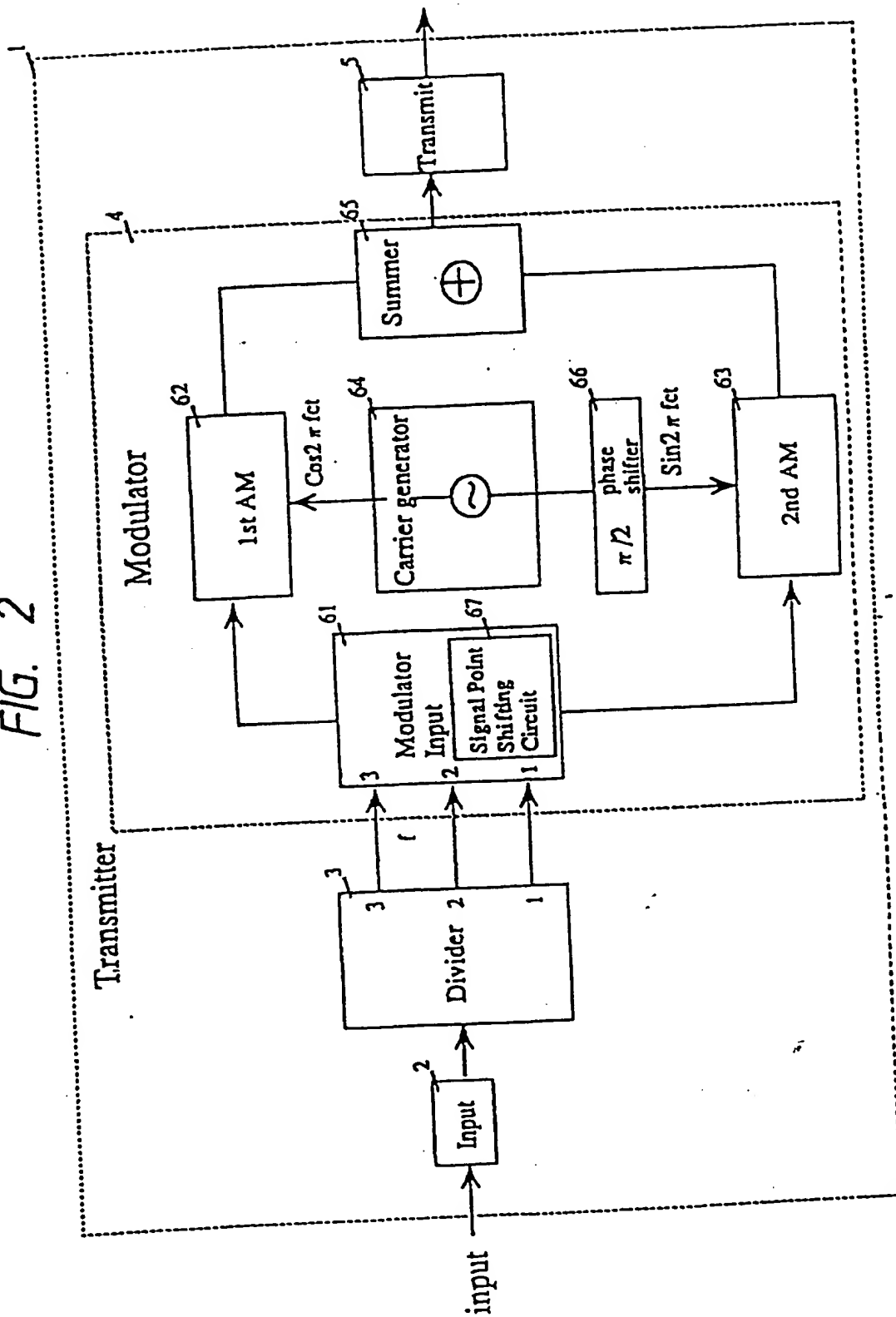
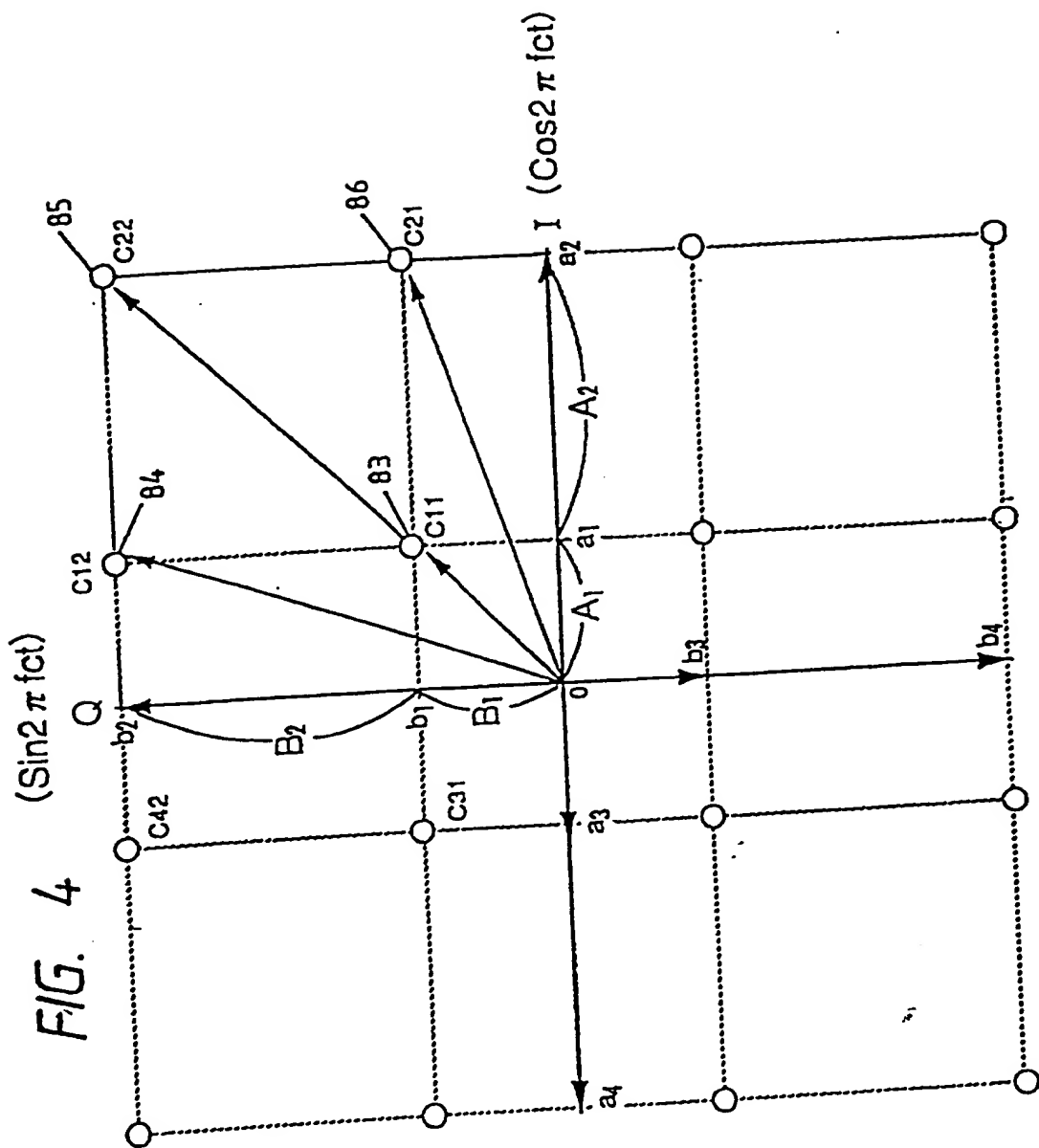


FIG. 2







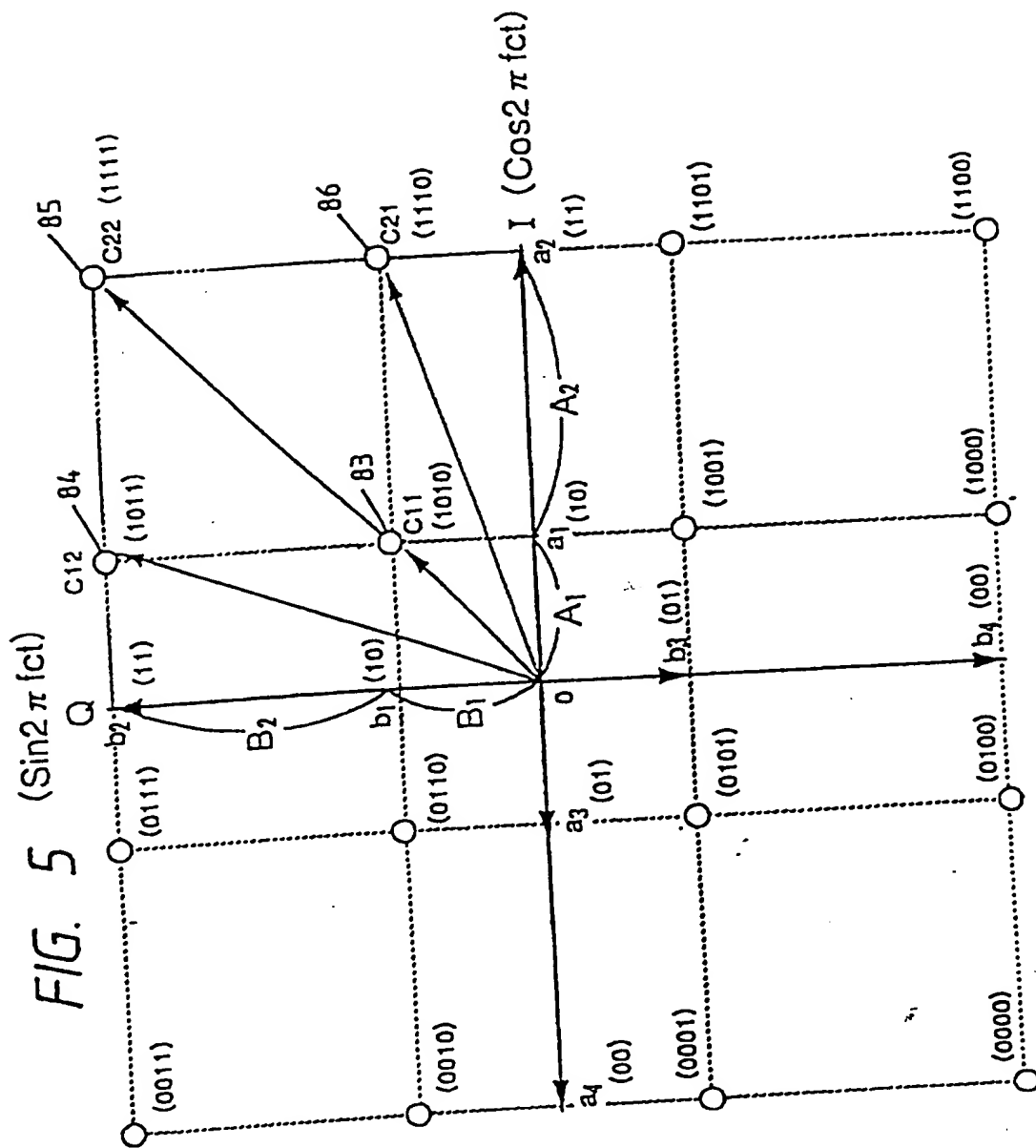


FIG. 6

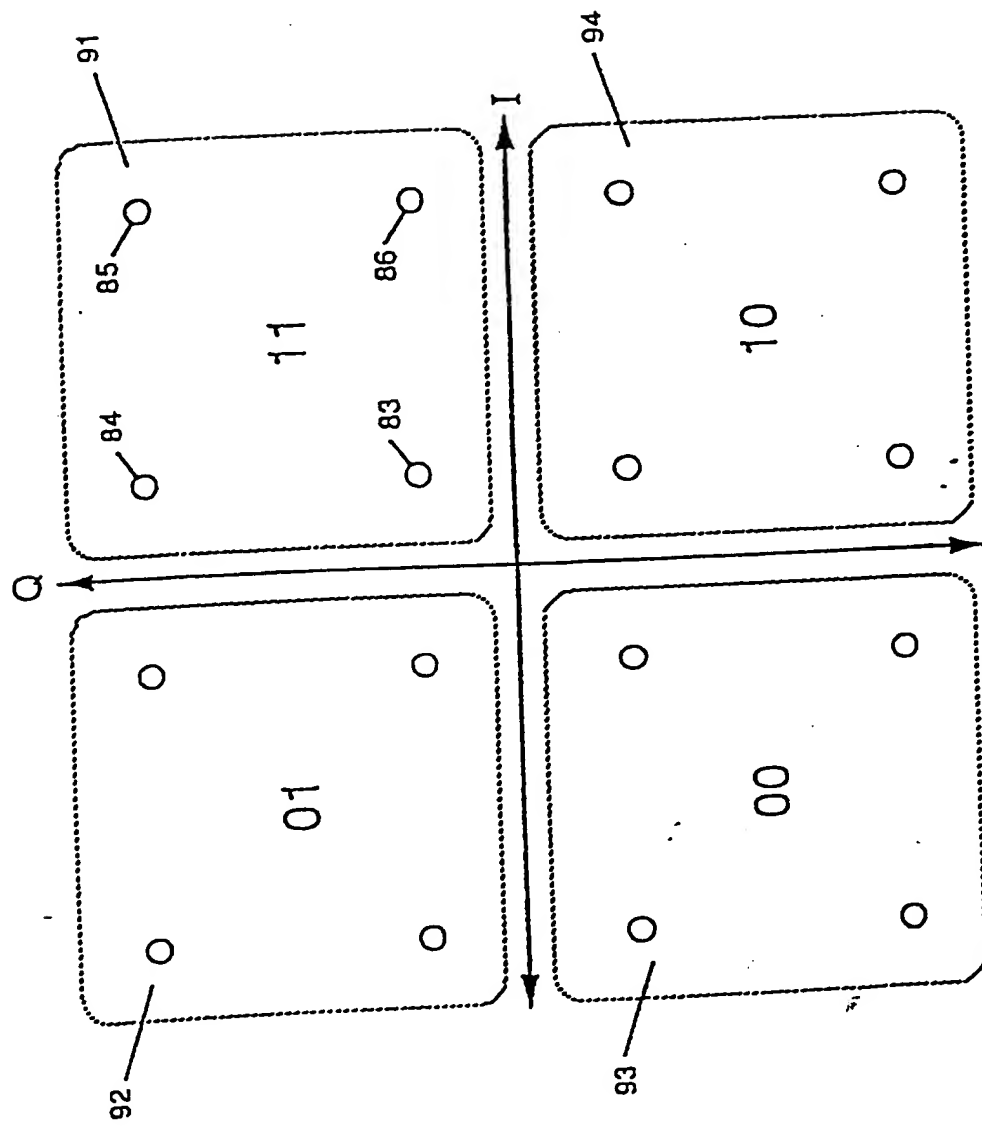


FIG. 7

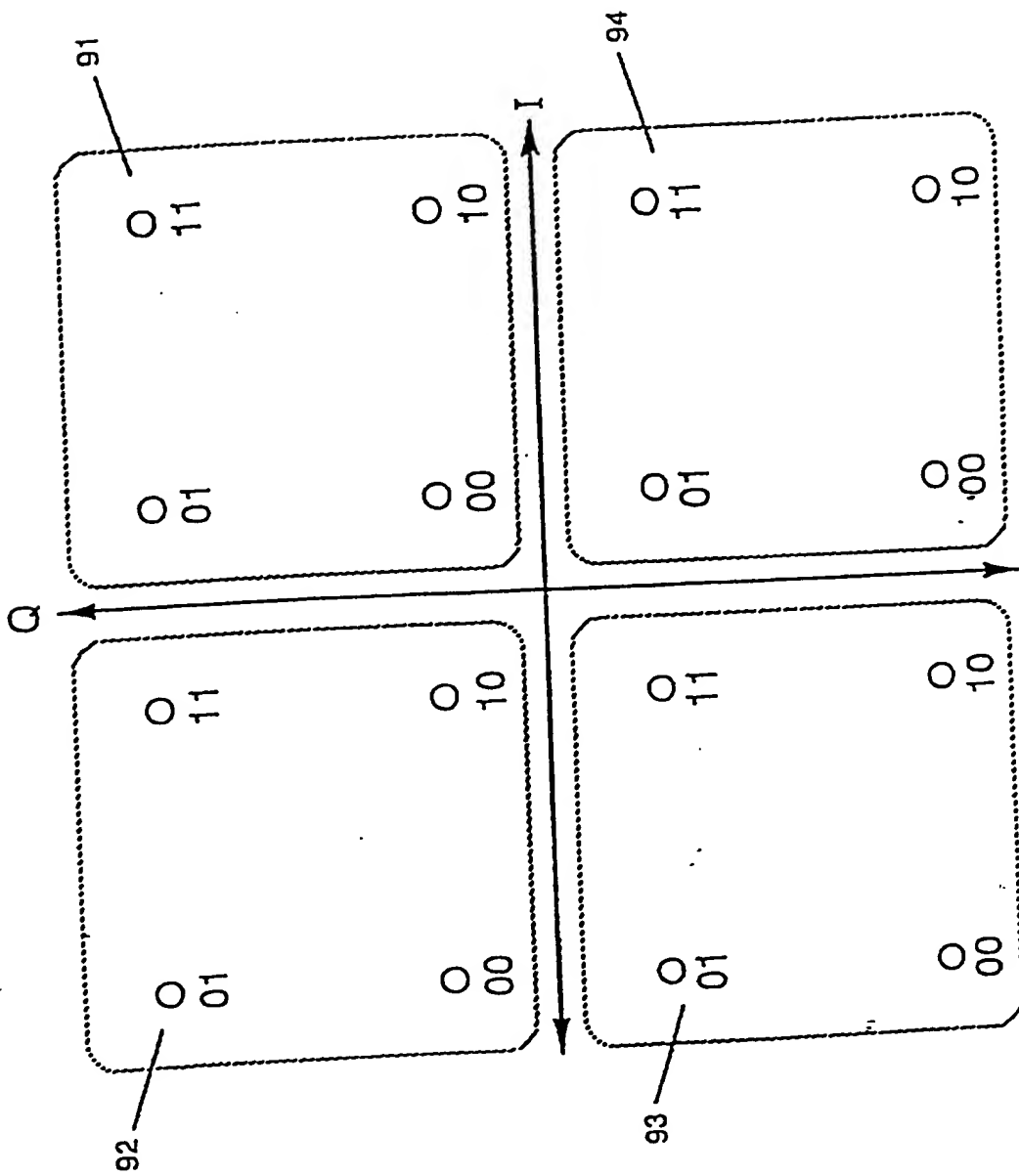


FIG. 8

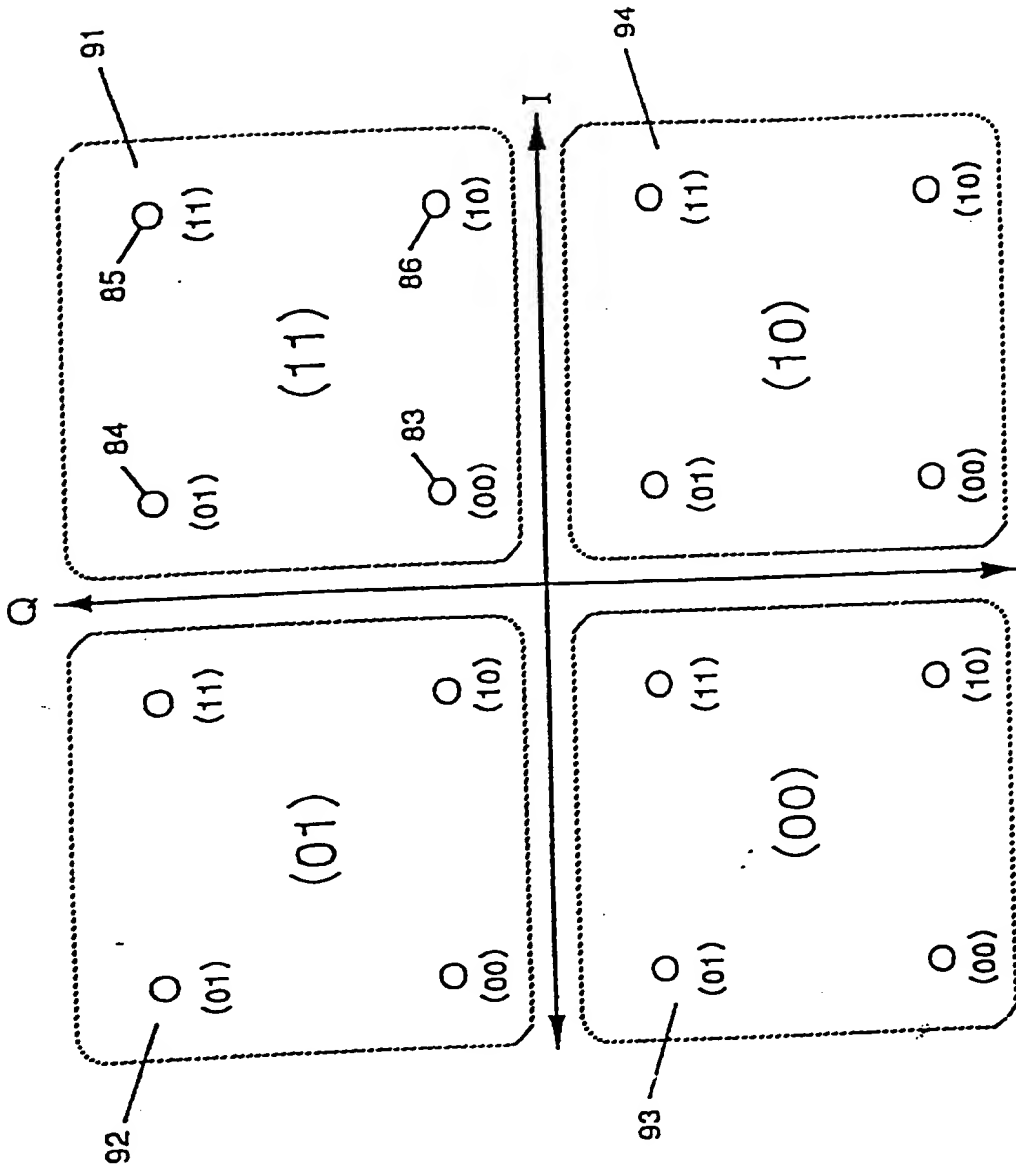




FIG. 9

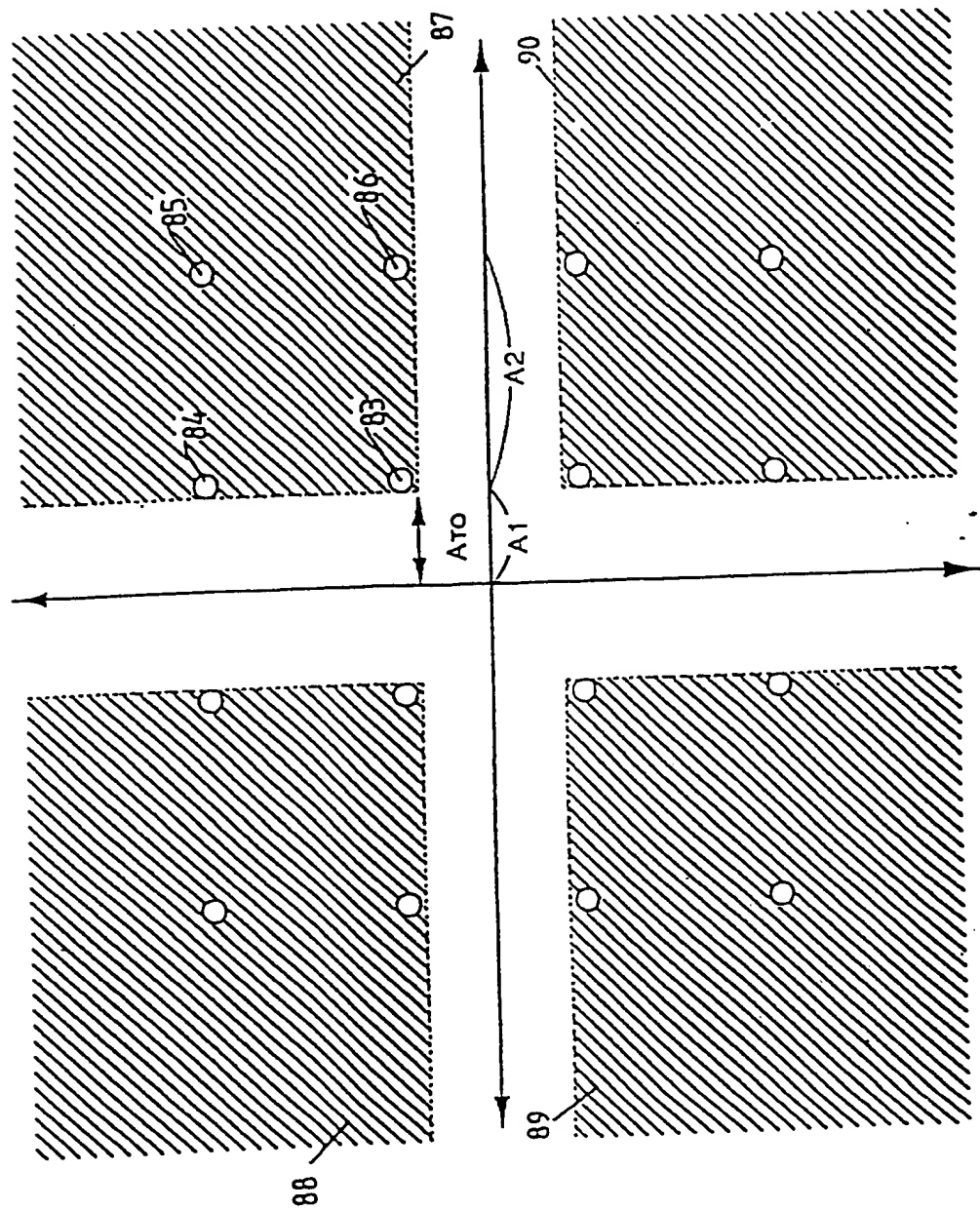




FIG. 11

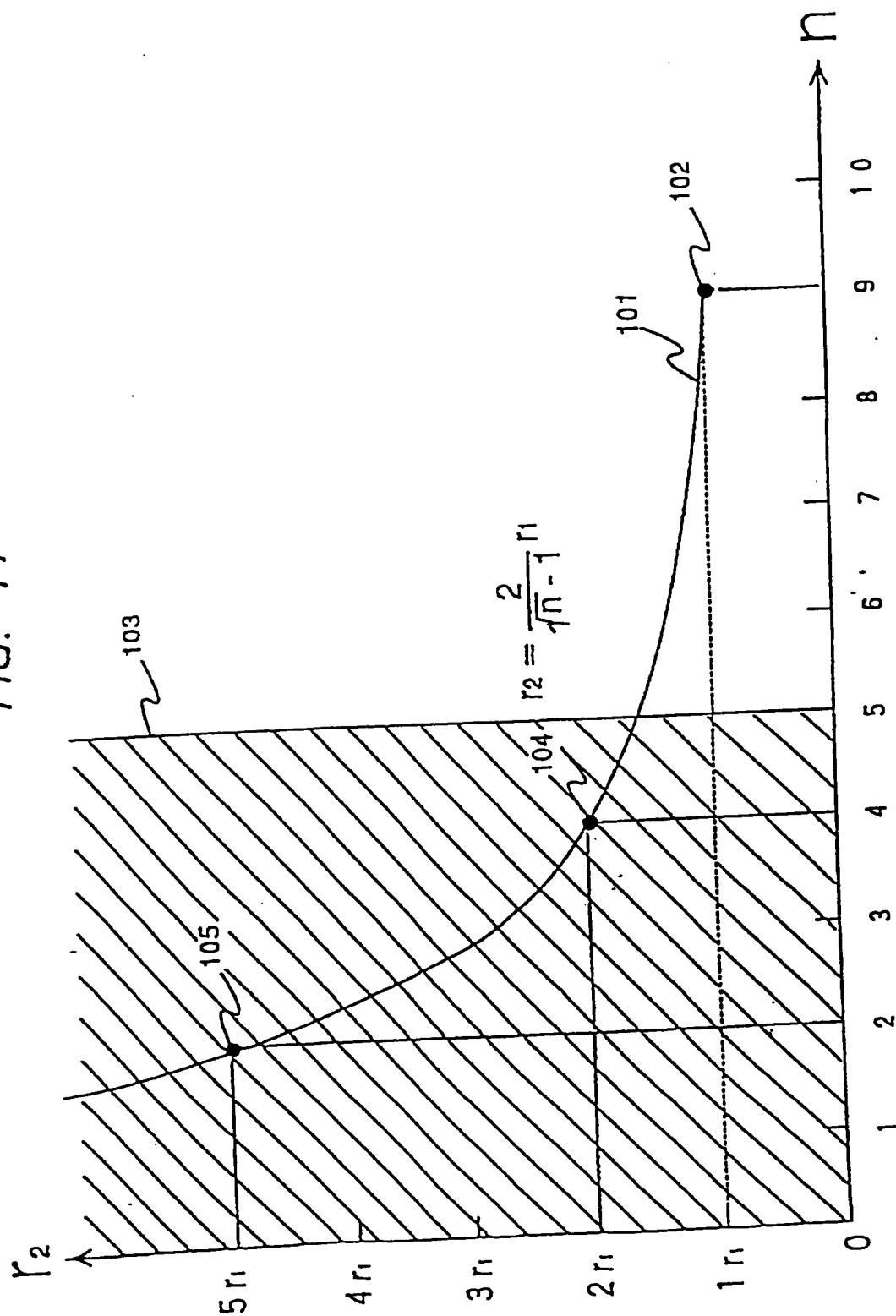


FIG. 12

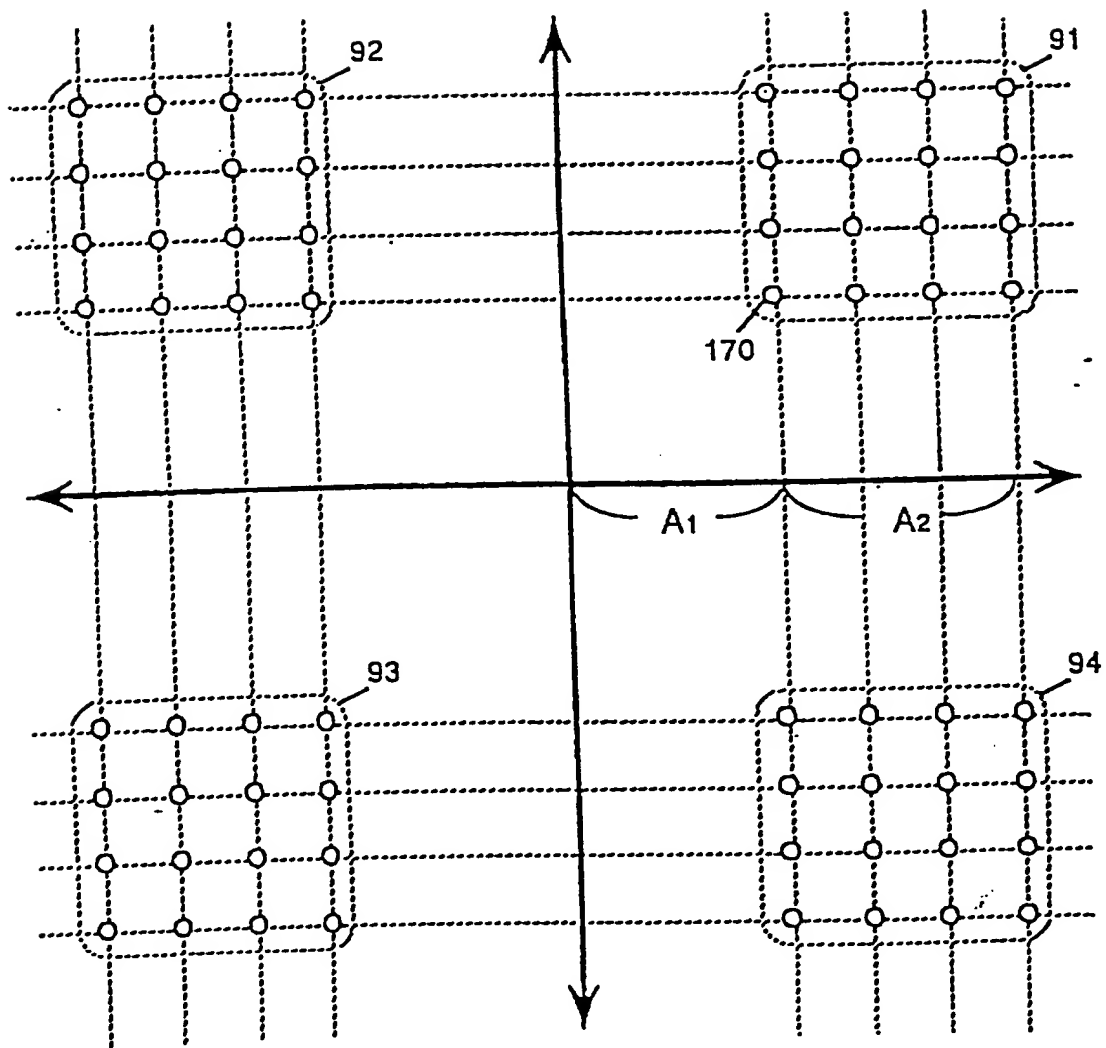


FIG. 13

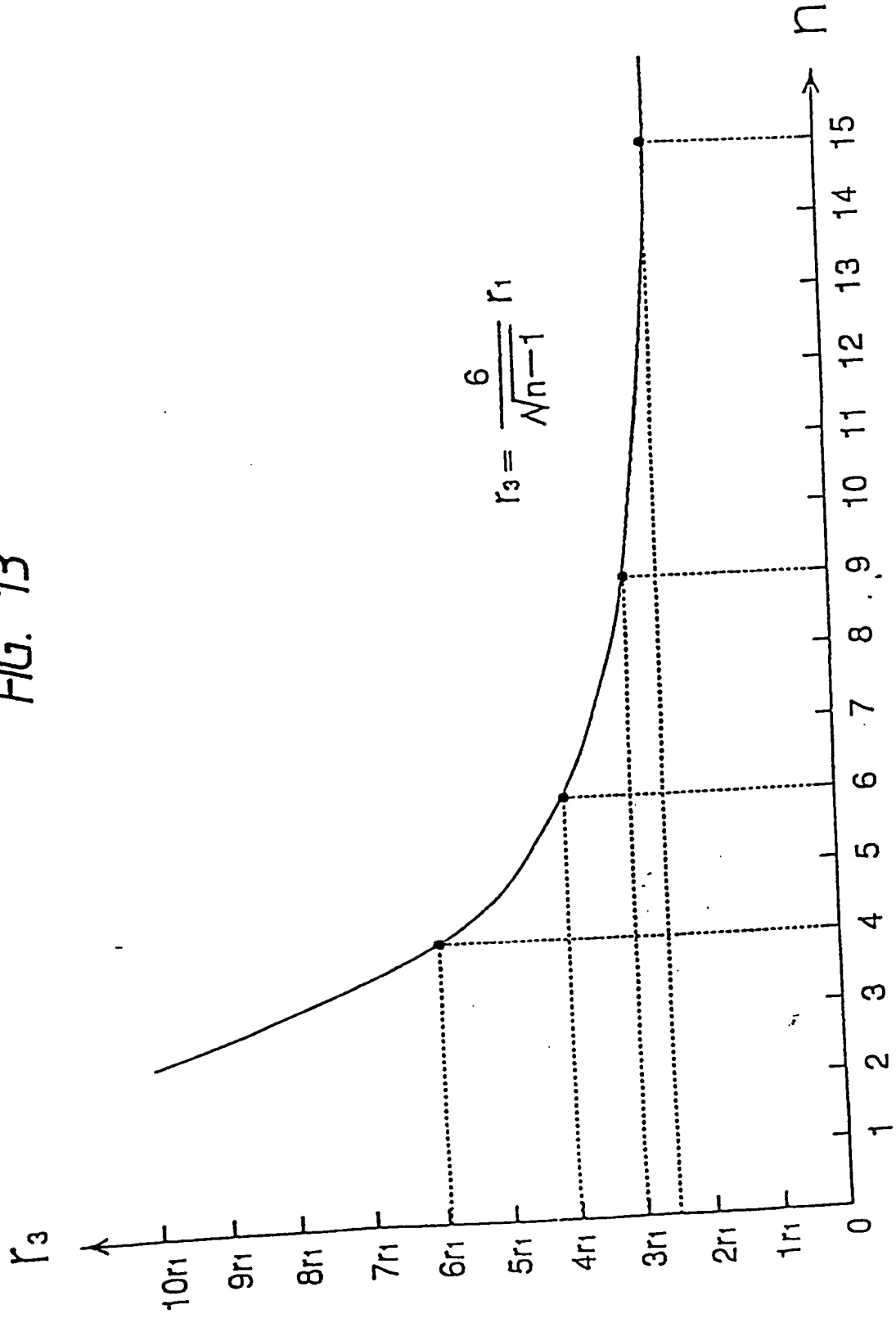


FIG. 14

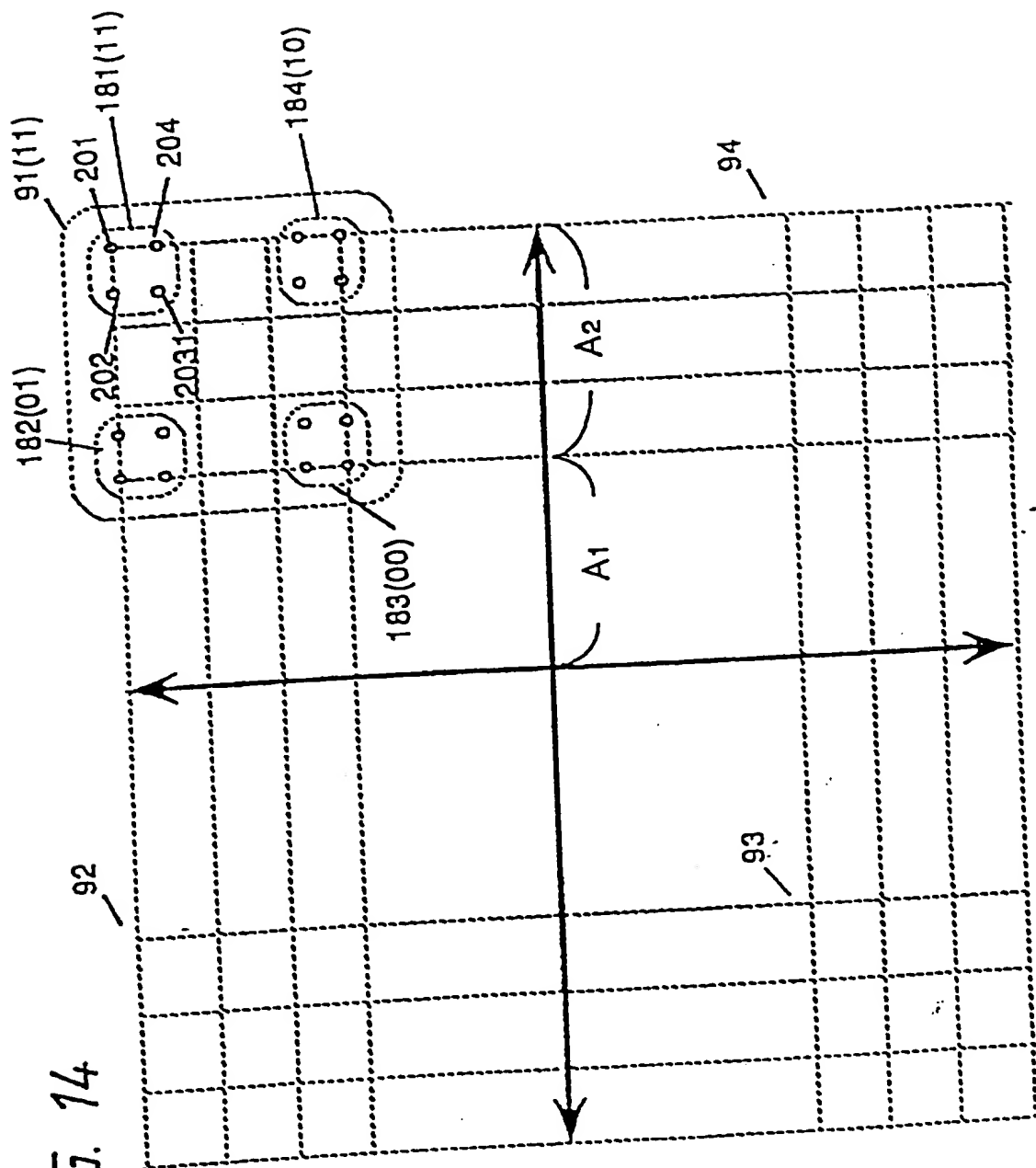


FIG. 15

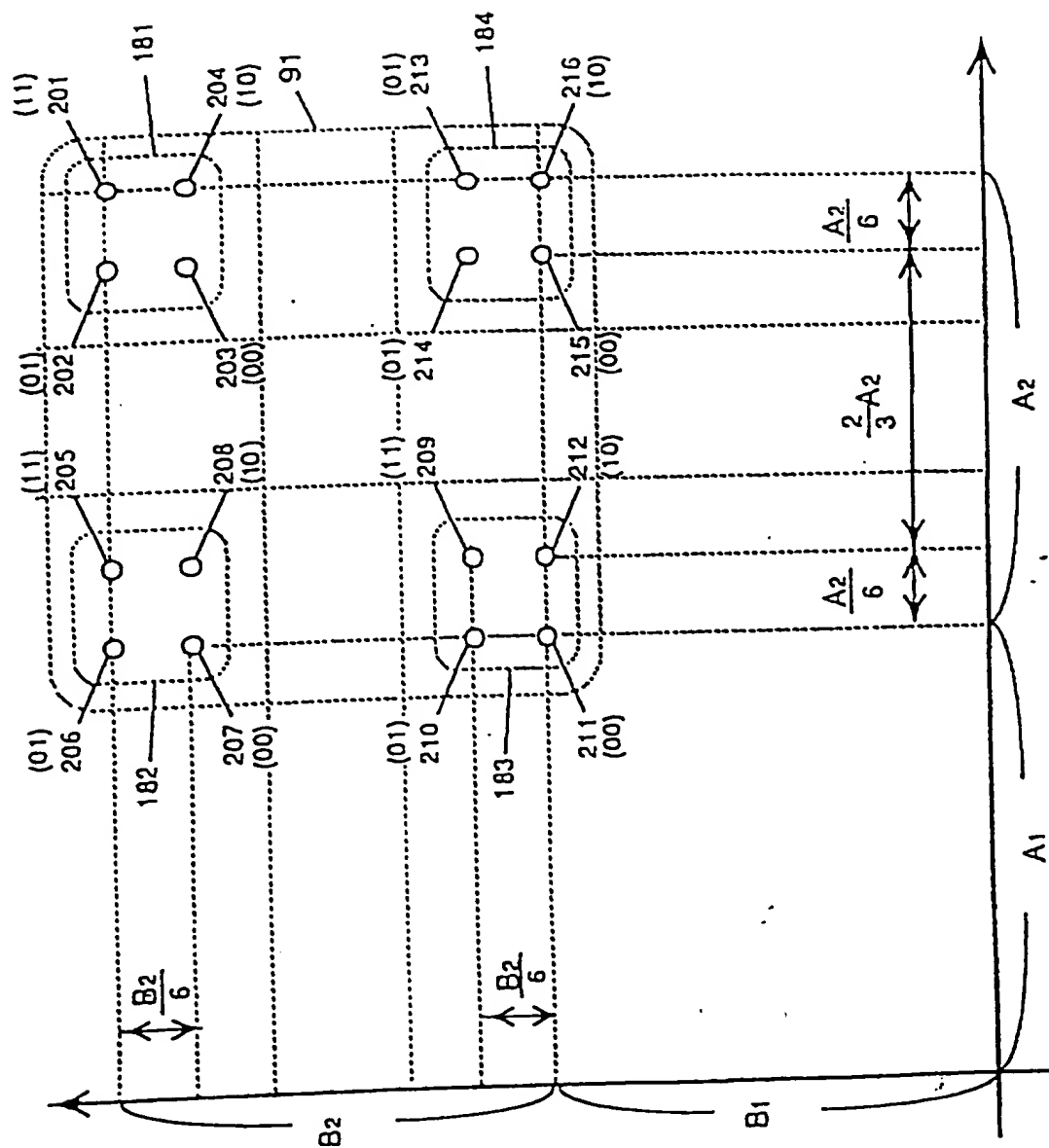


FIG. 16

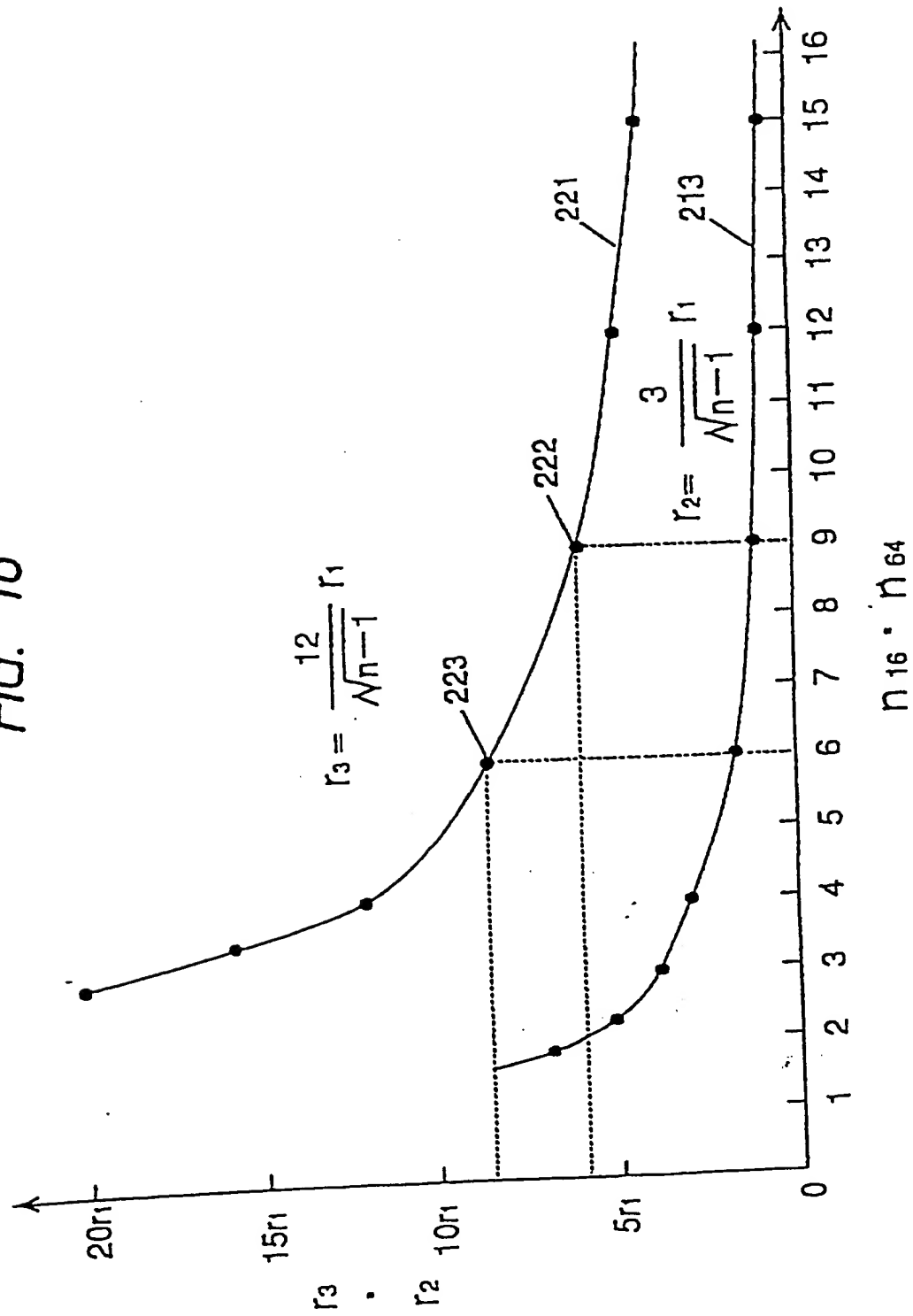




FIG. 17

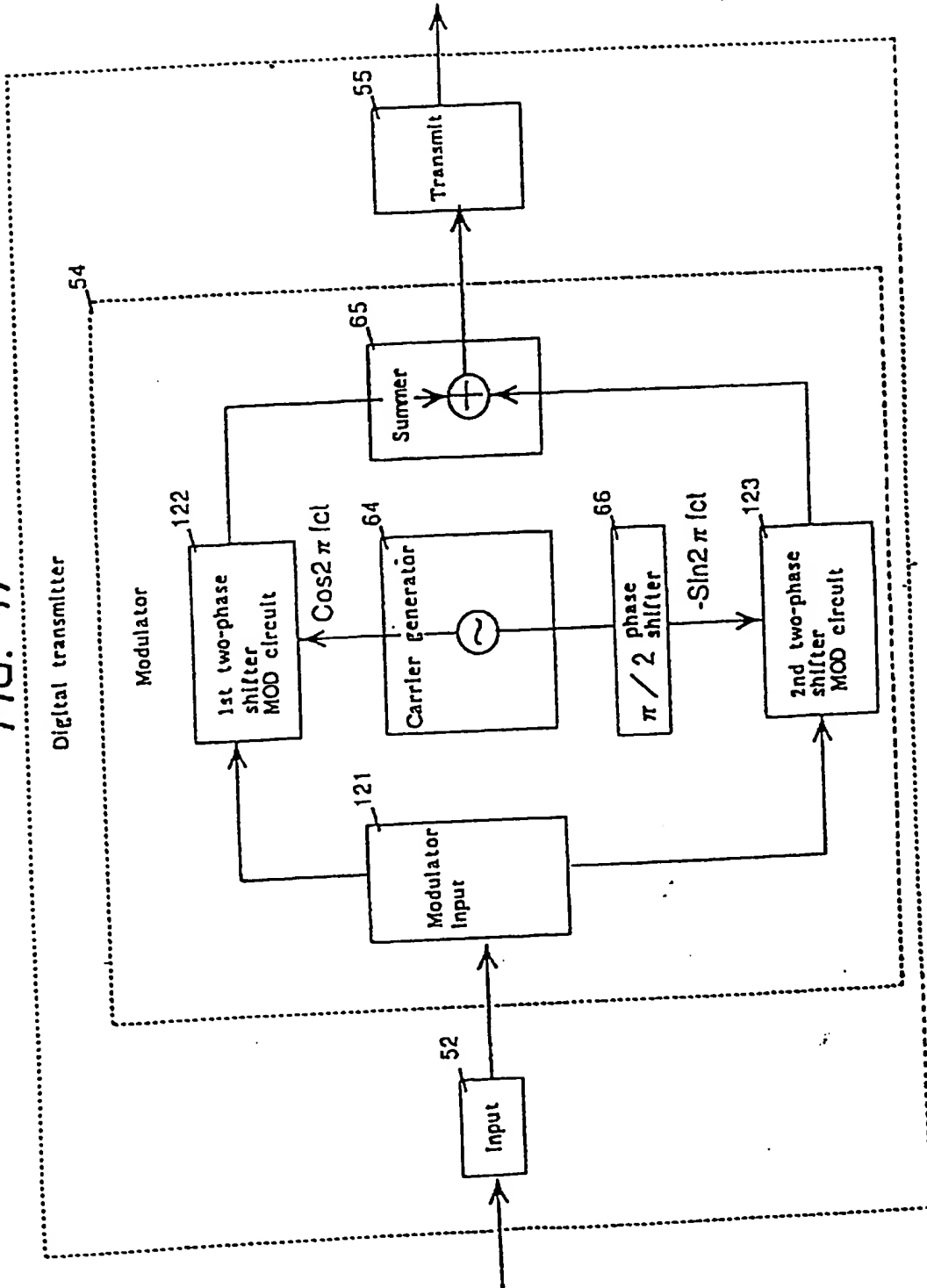


FIG. 18

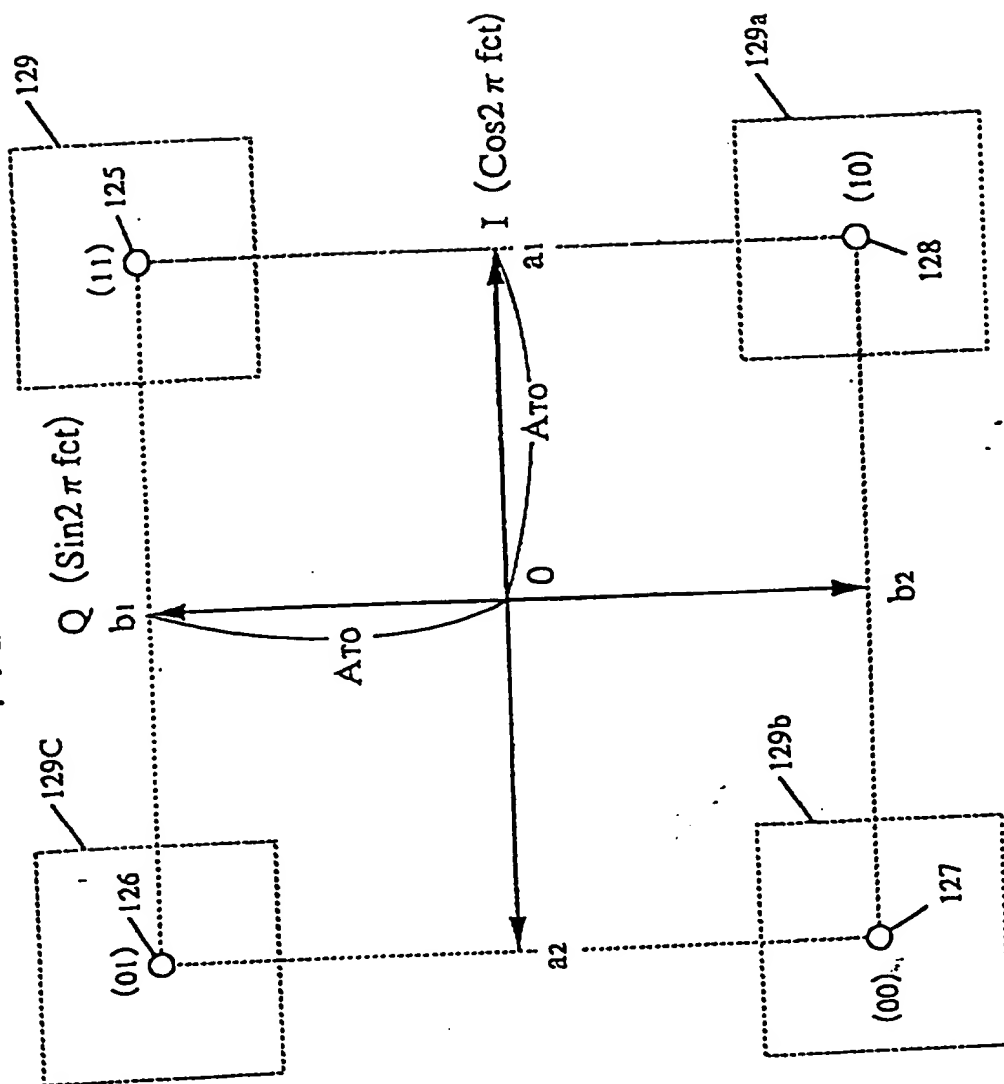
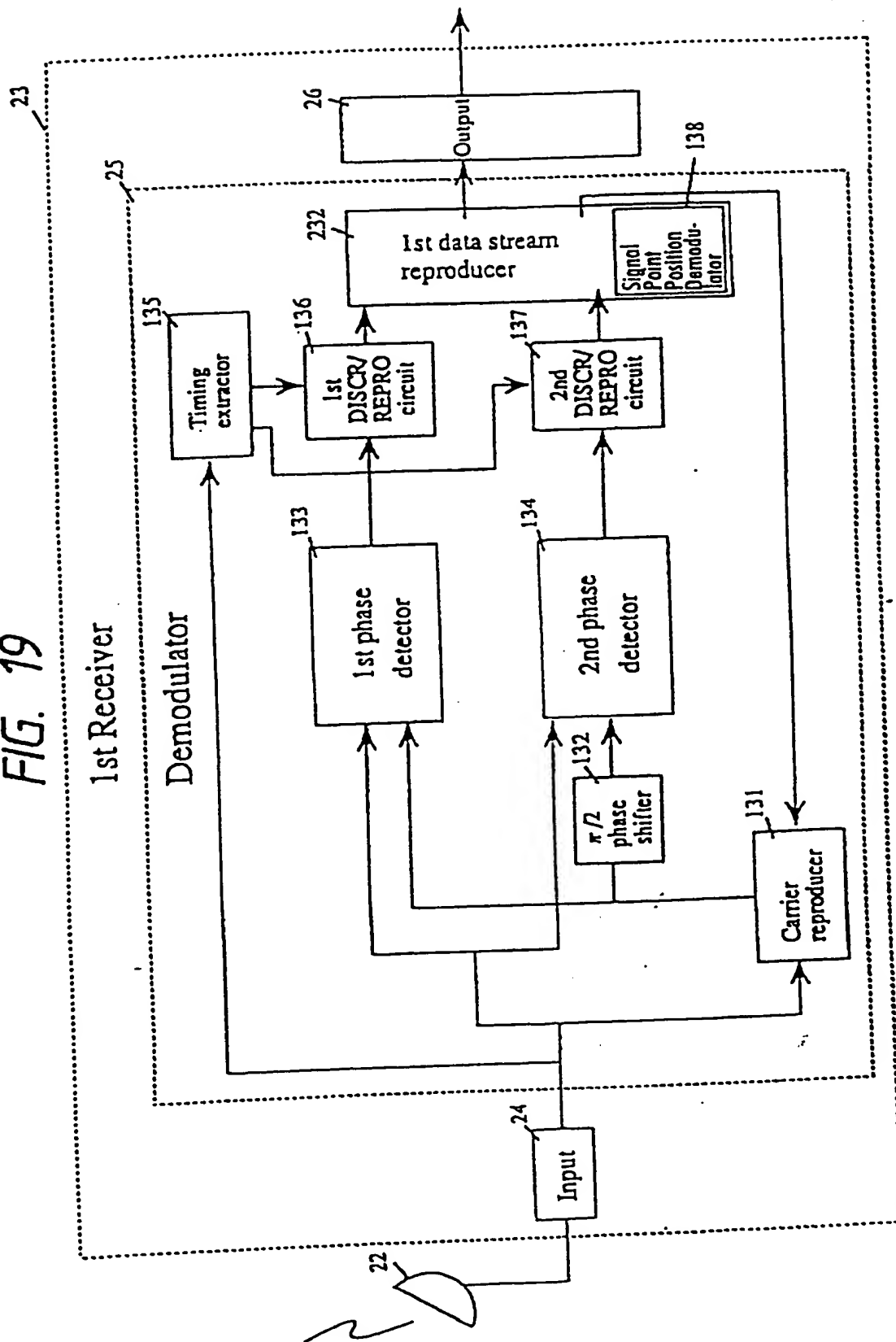


FIG. 19



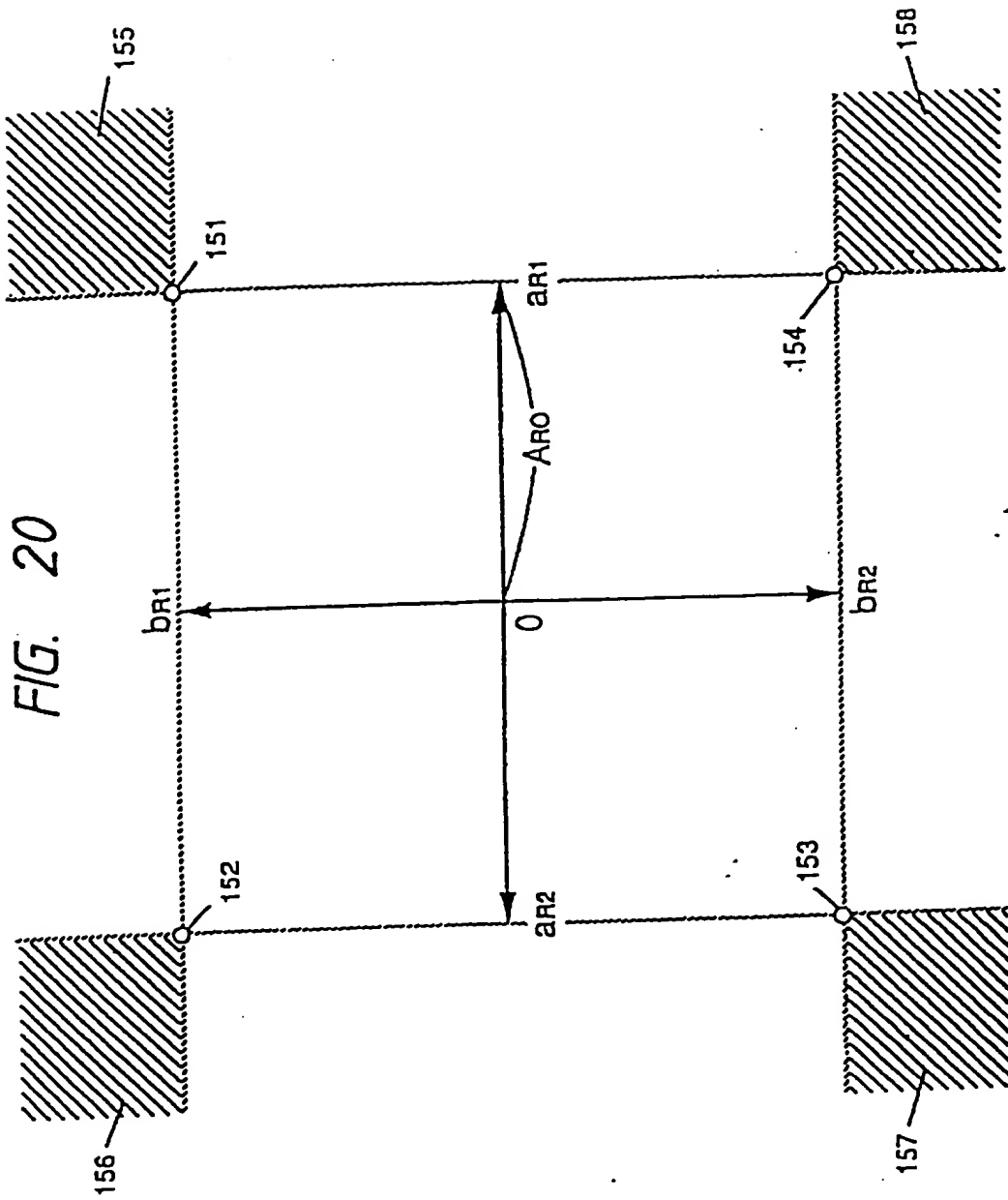


FIG. 21

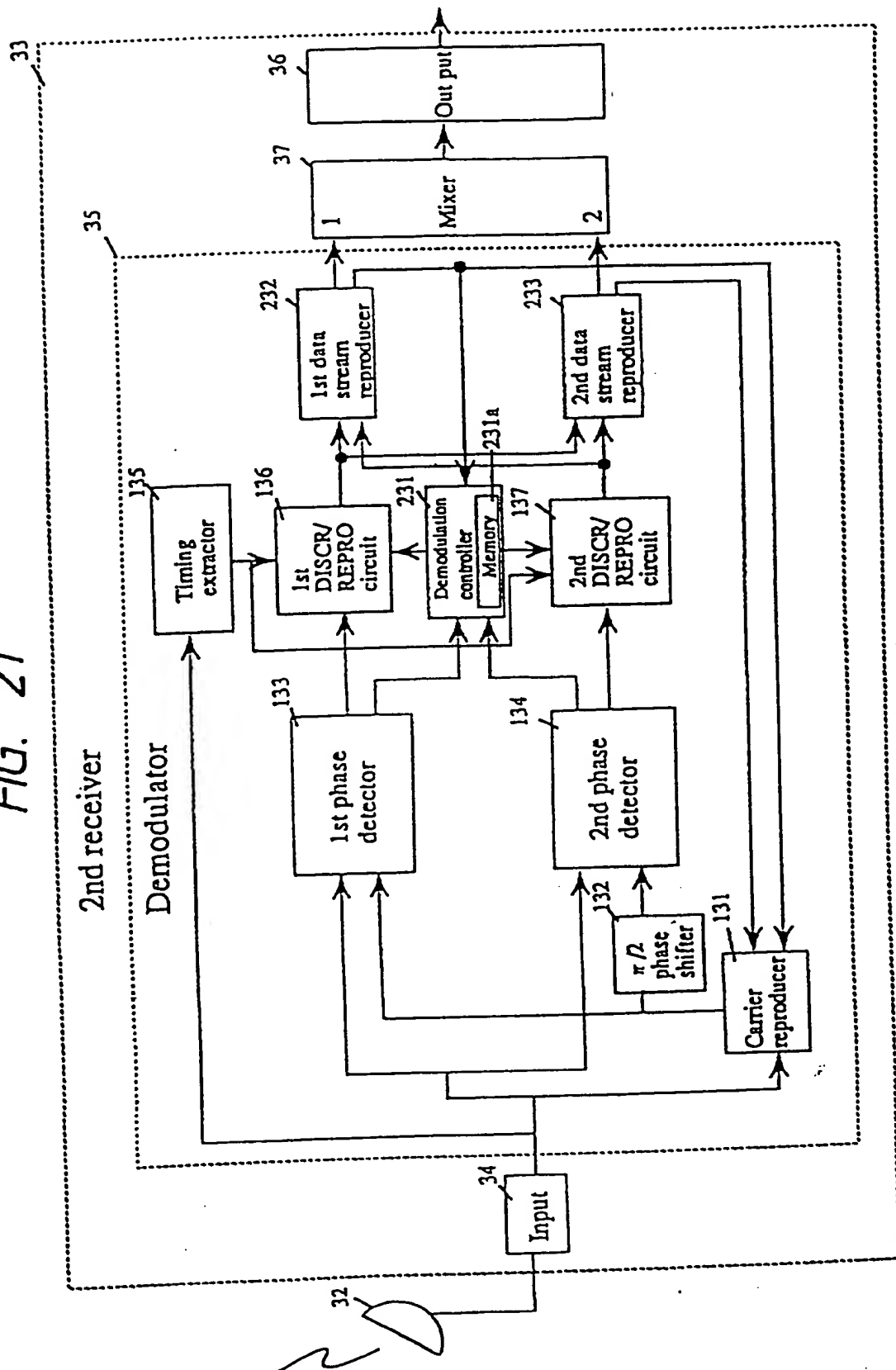


FIG. 22

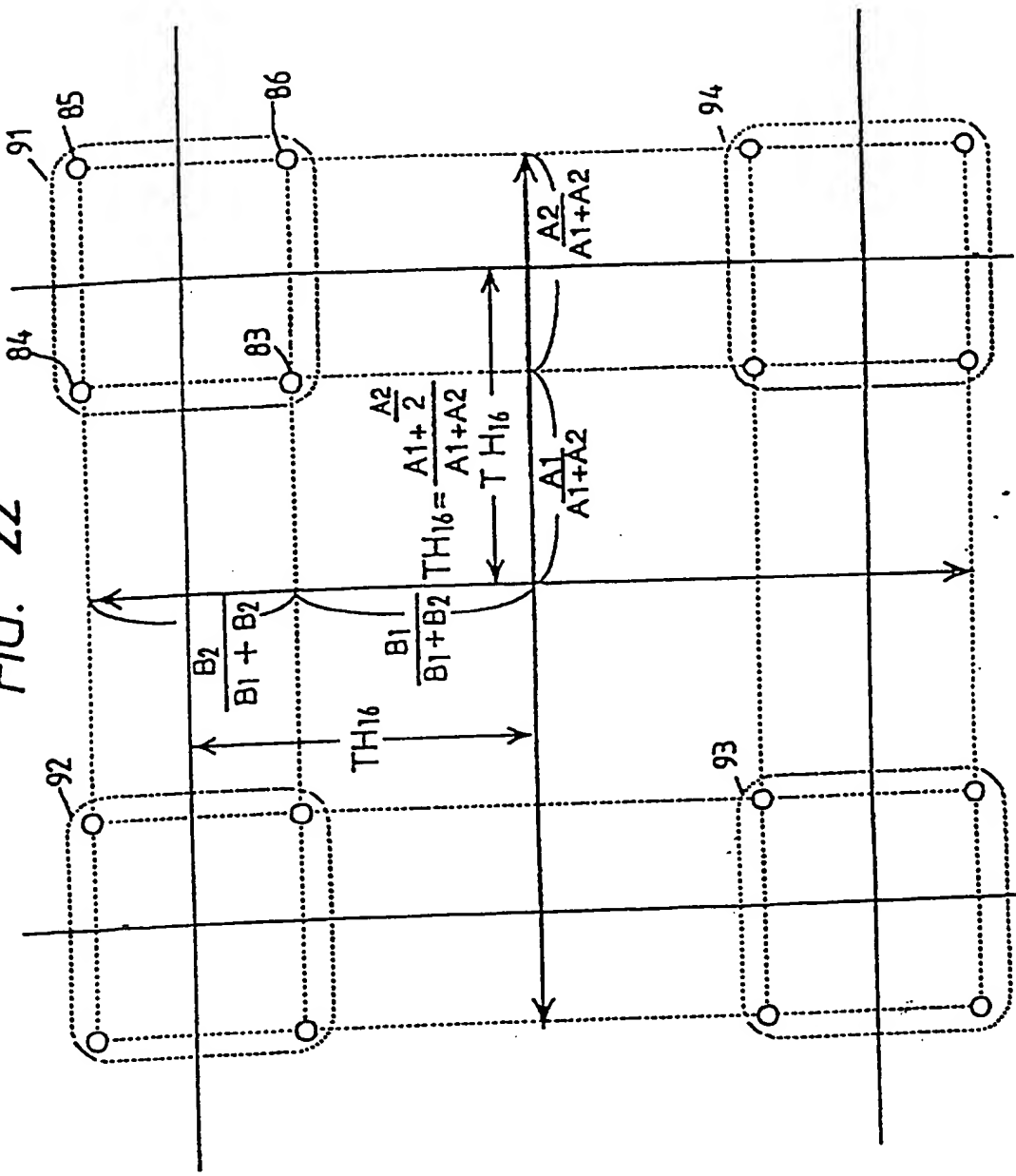


FIG. 23

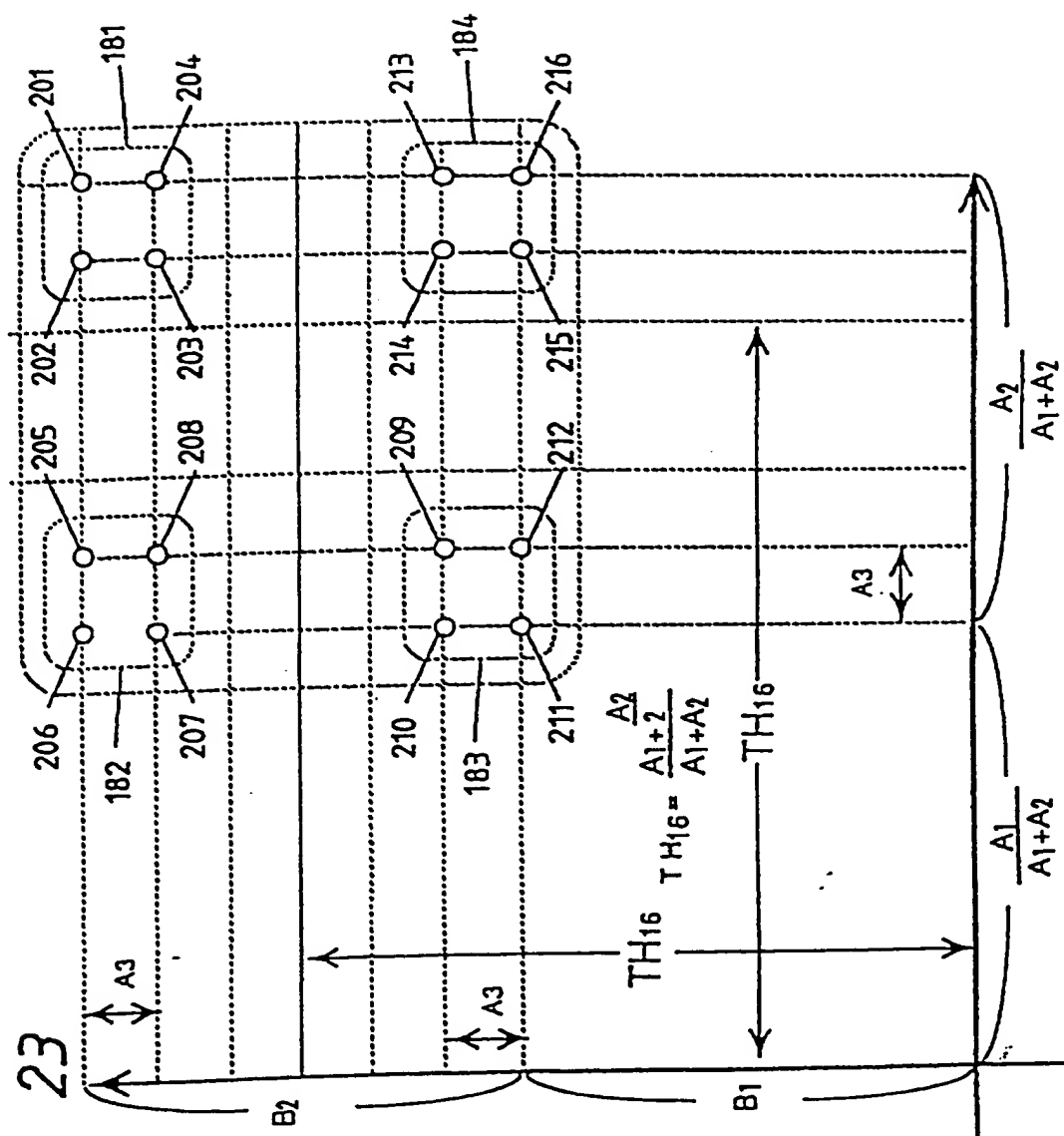


FIG. 24

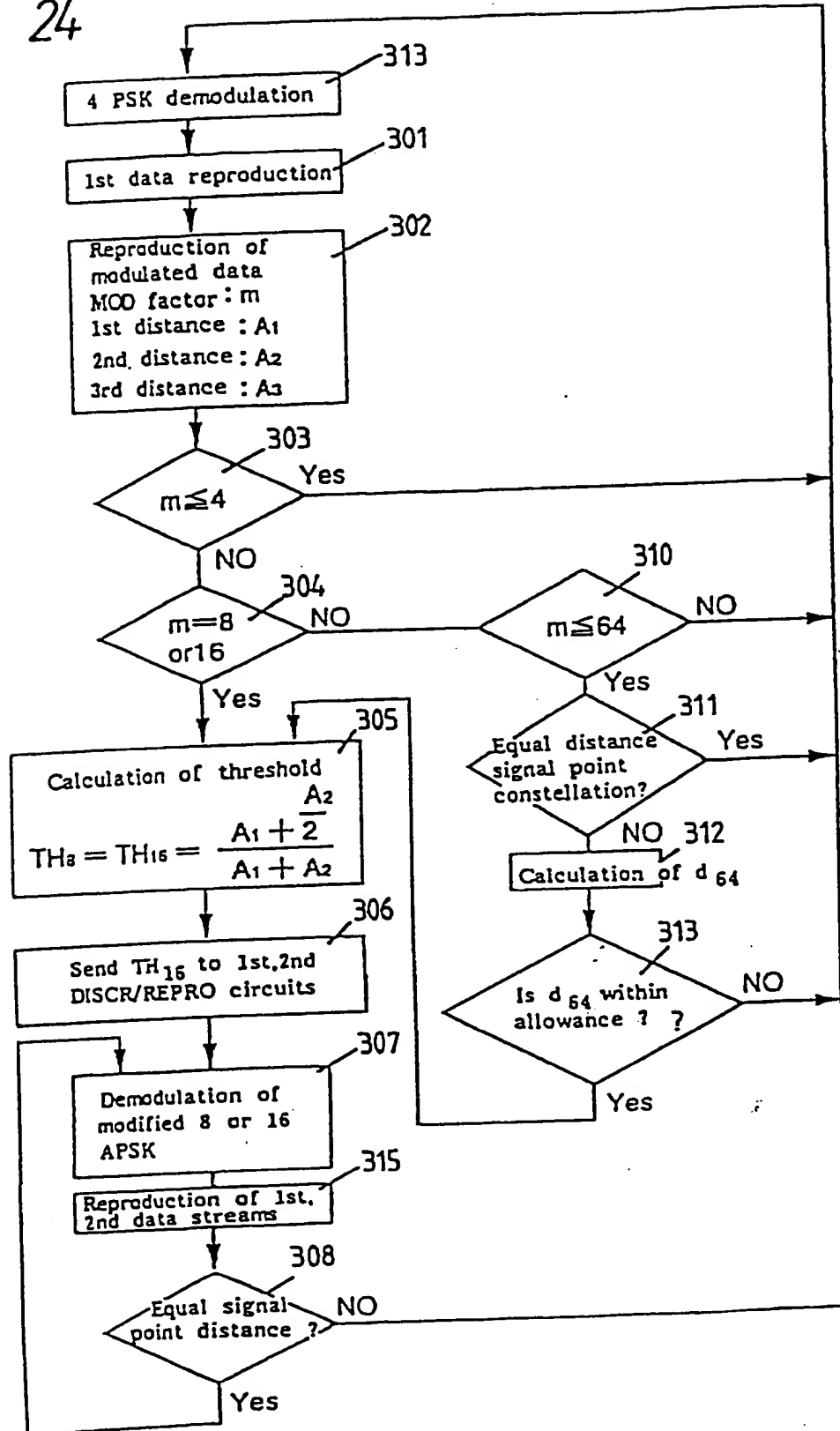






FIG. 26

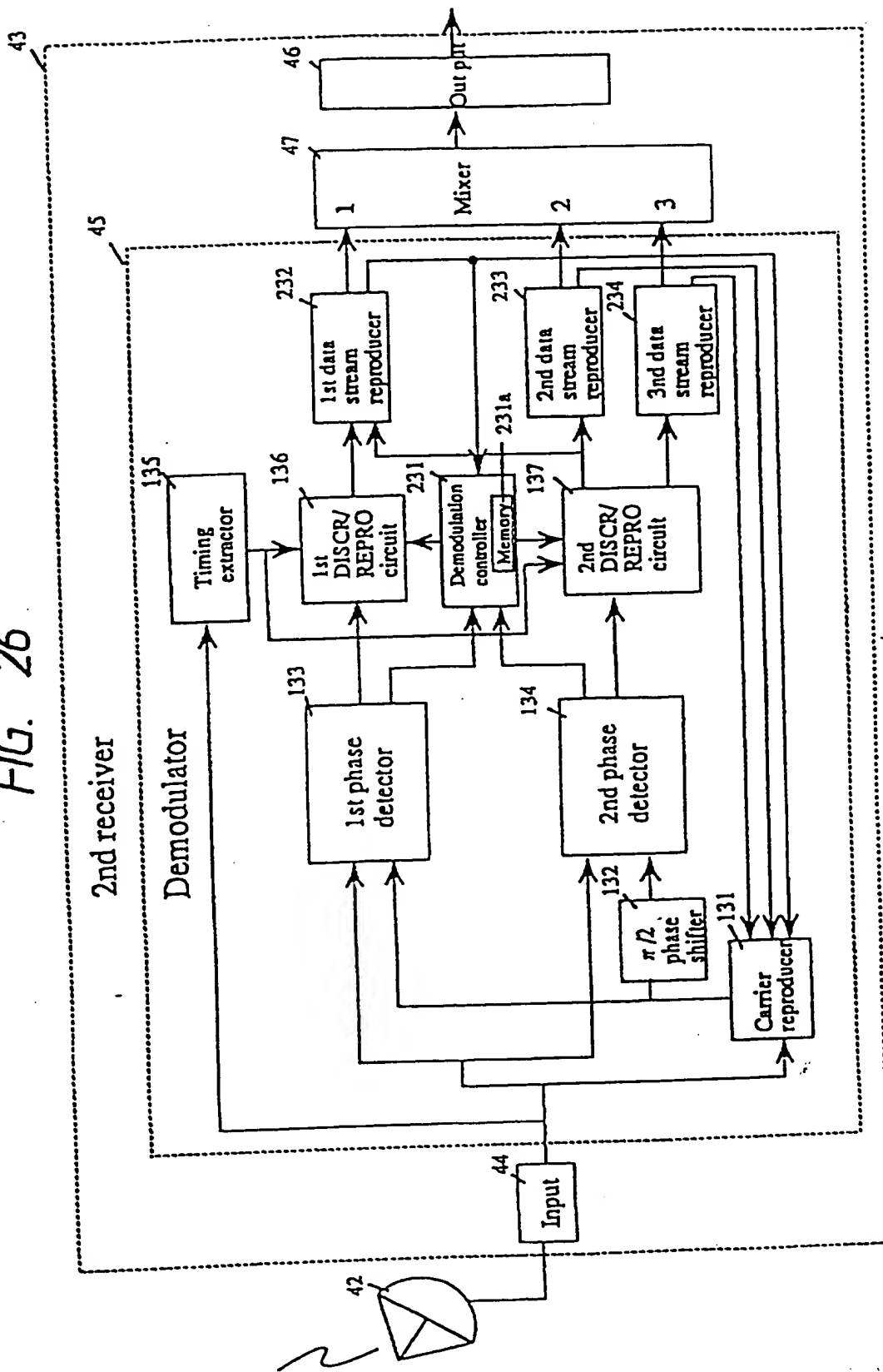


FIG. 27

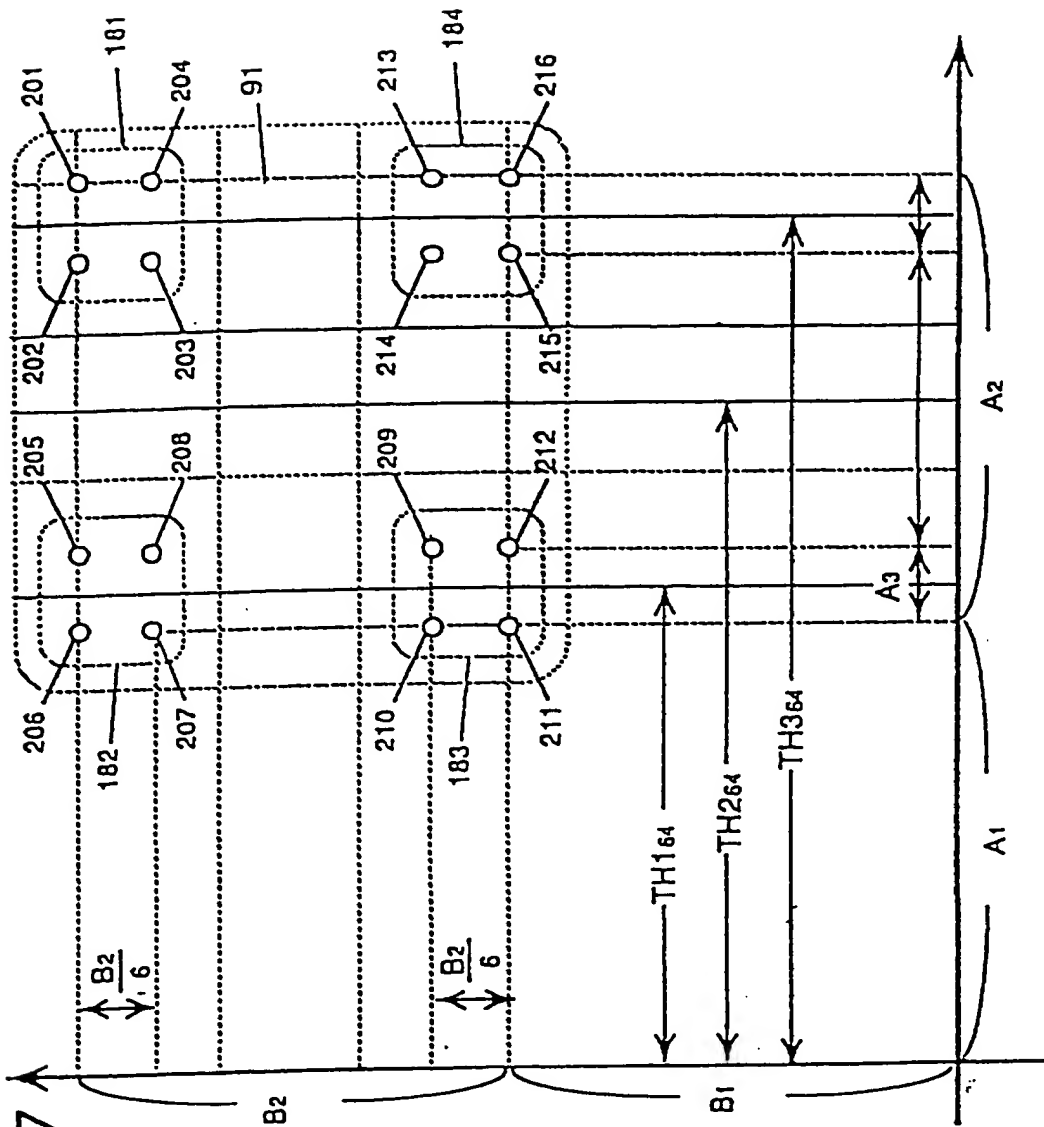


FIG. 28

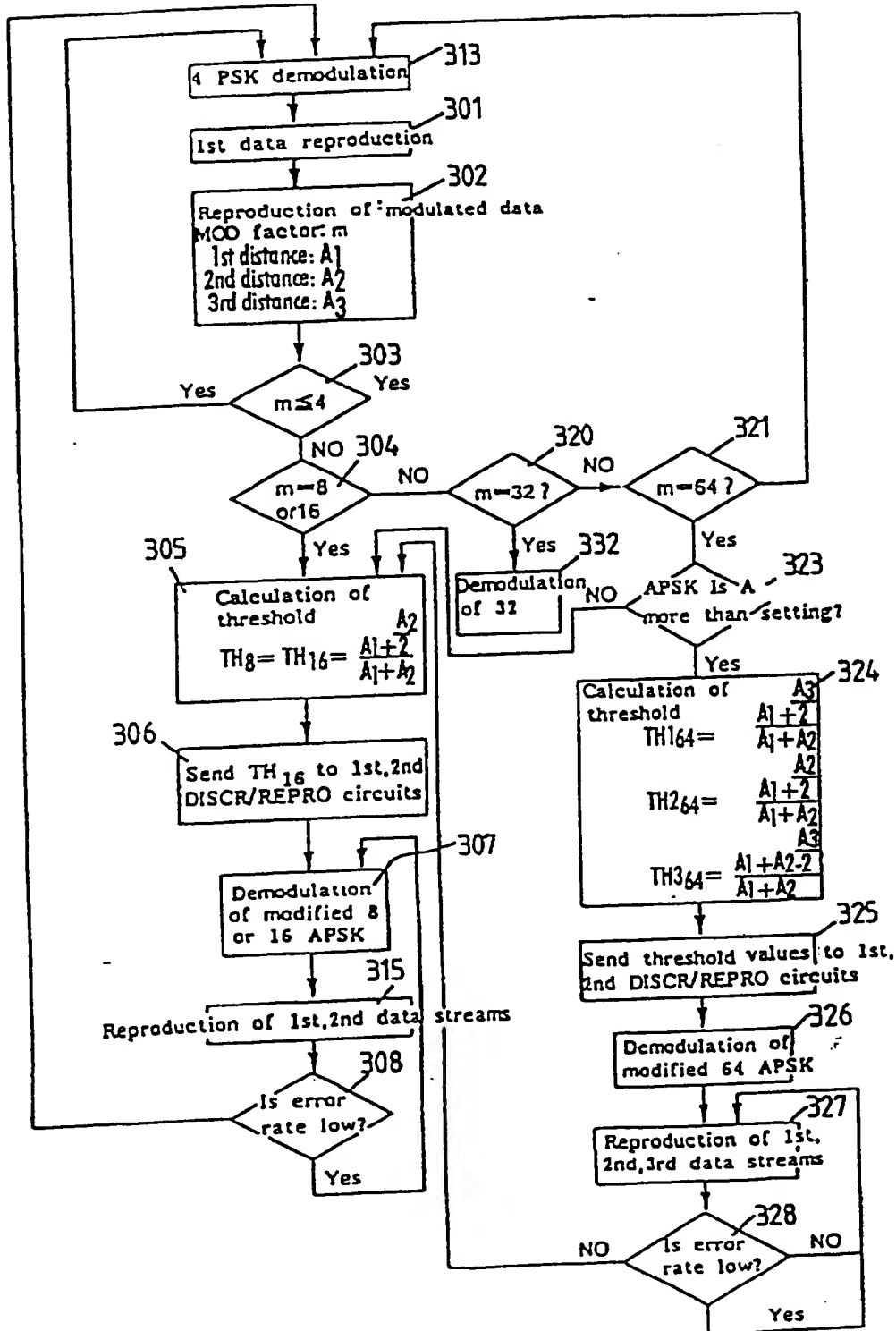


FIG. 29

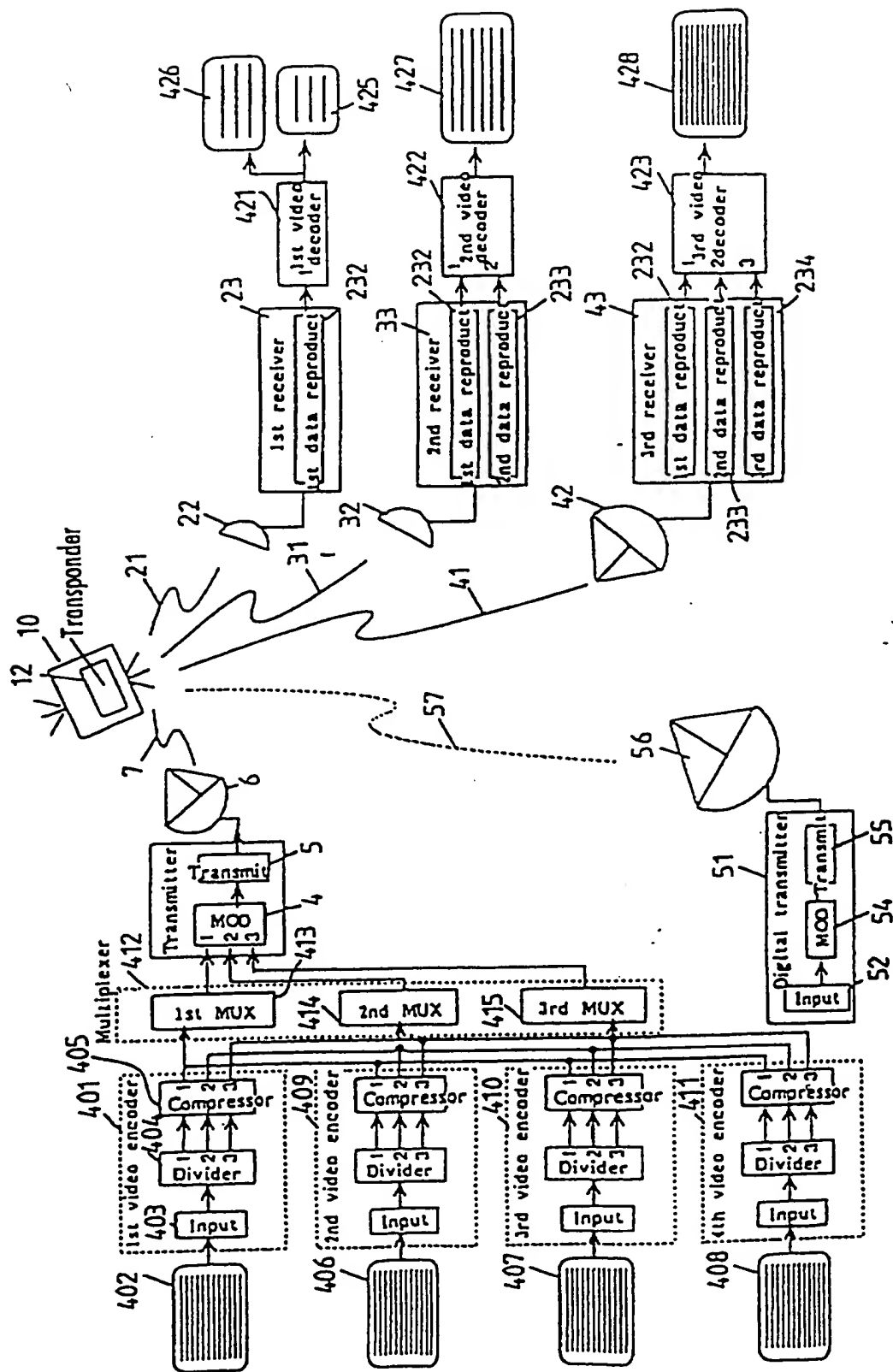


FIG. 30

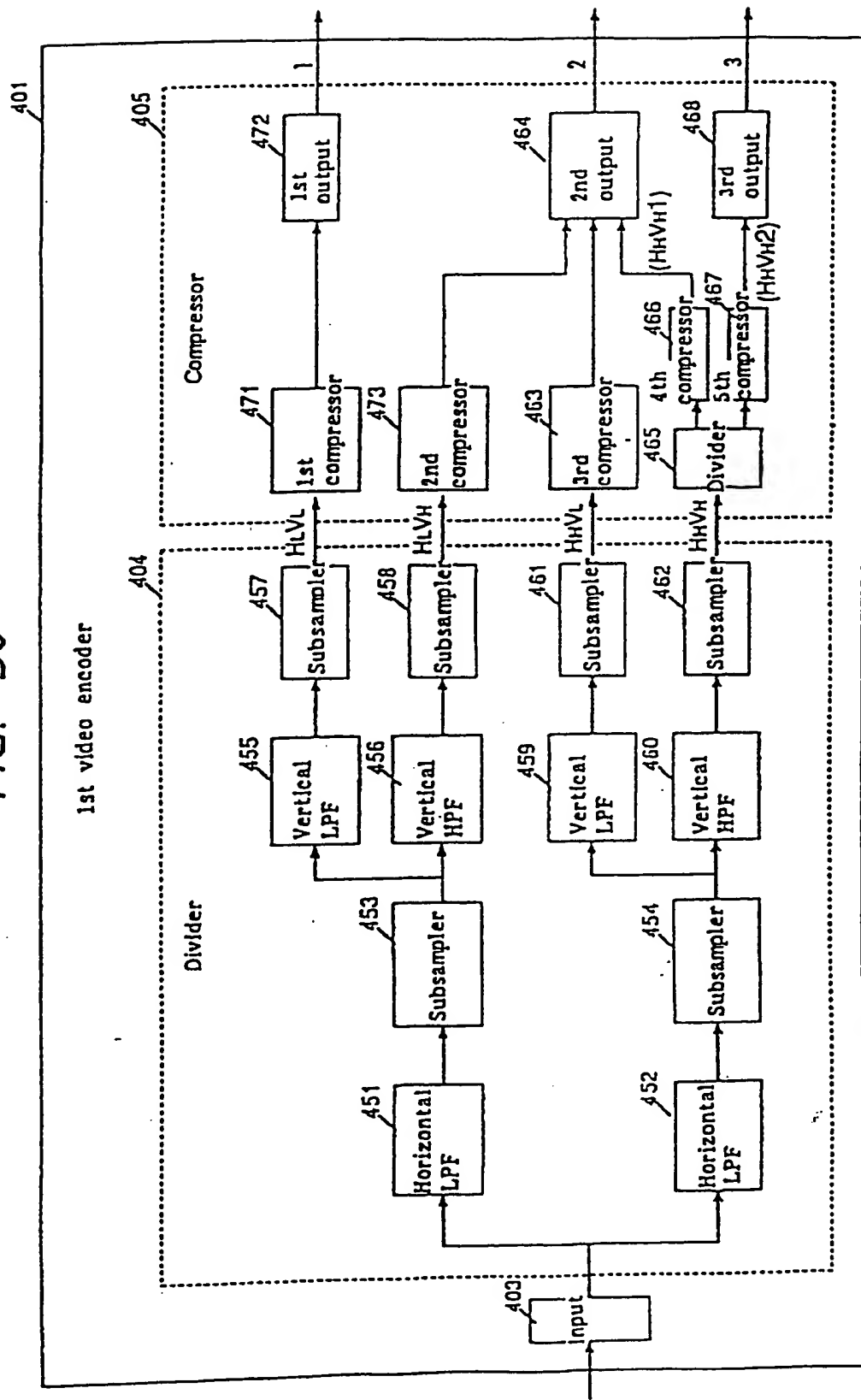


FIG. 31

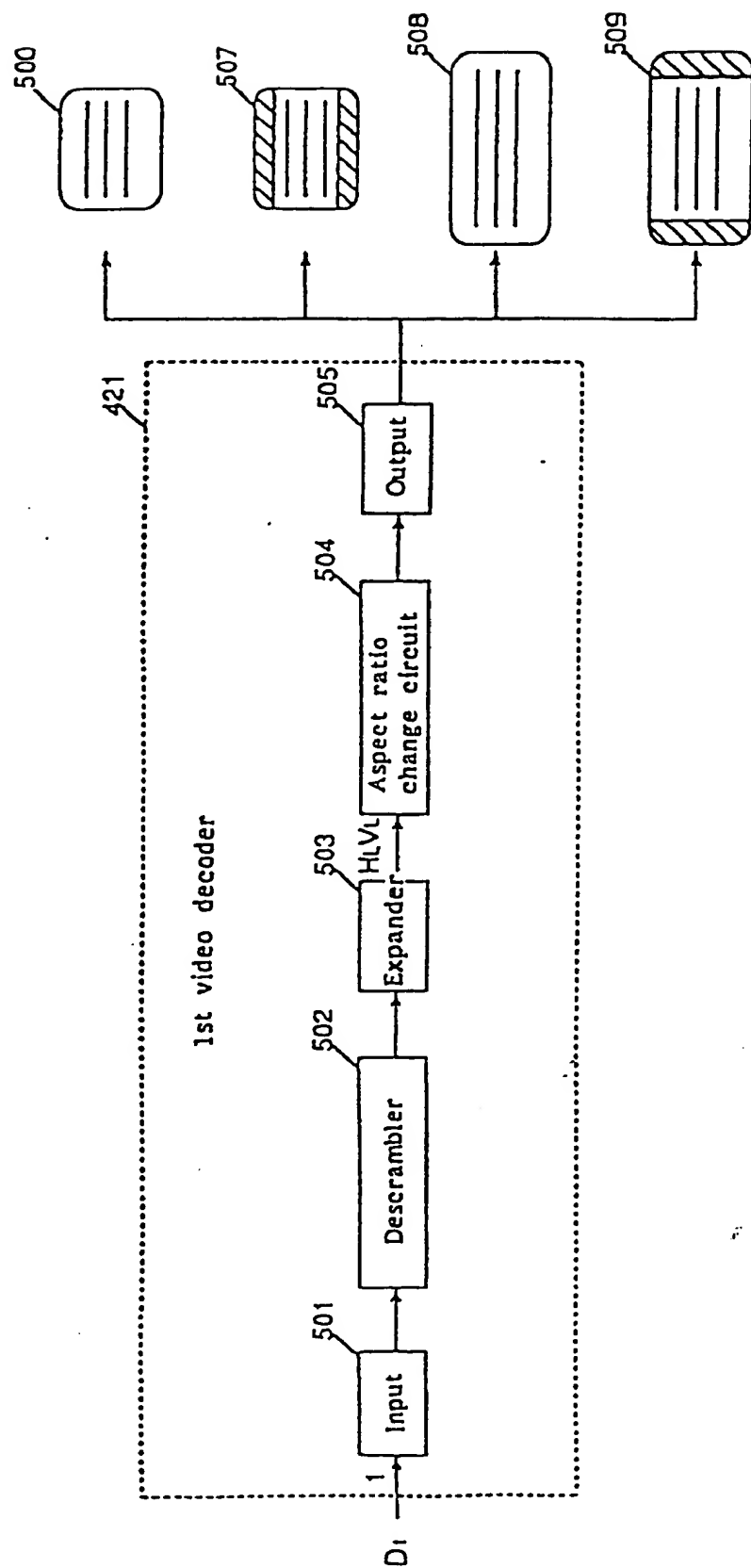


FIG. 32

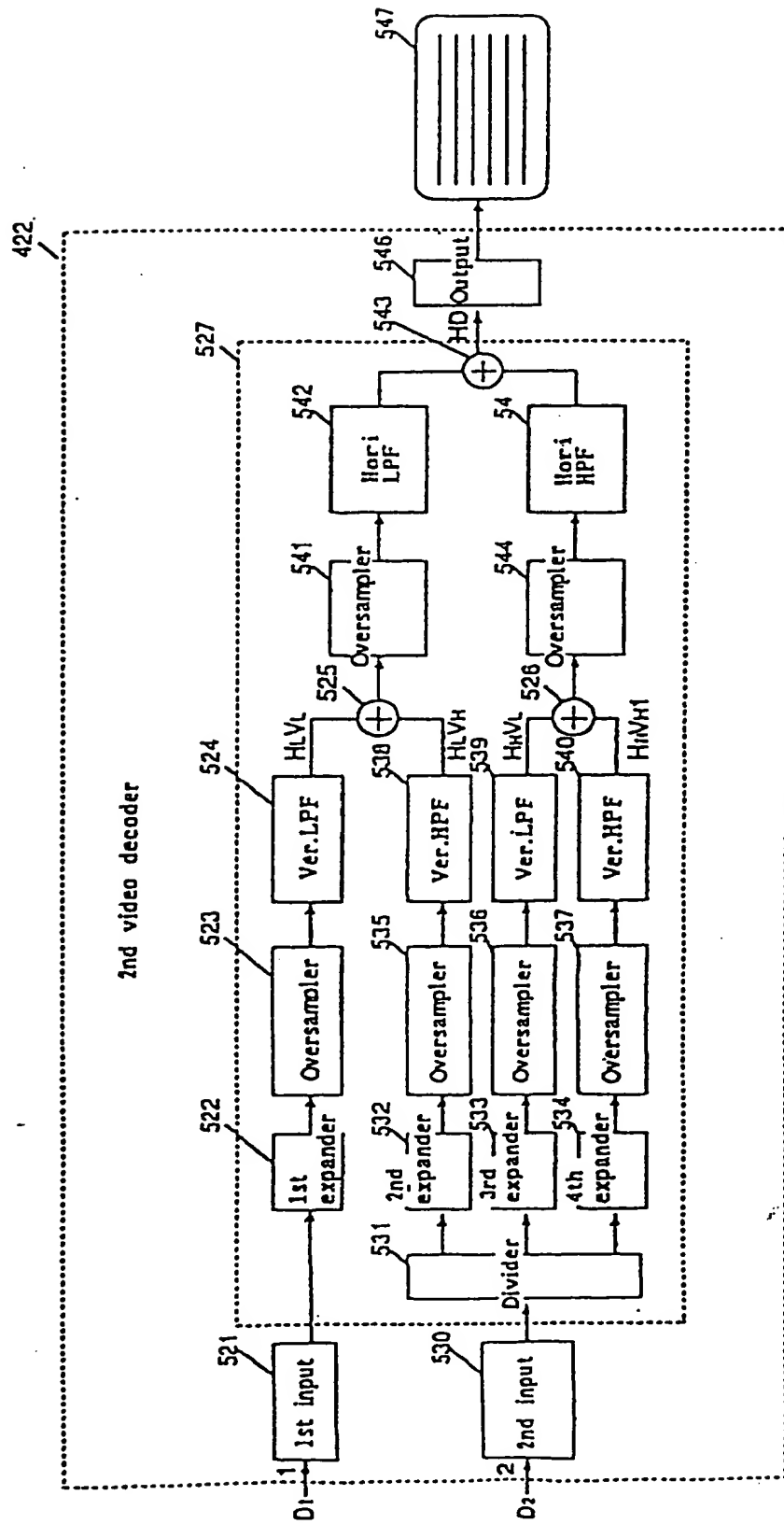




FIG. 33

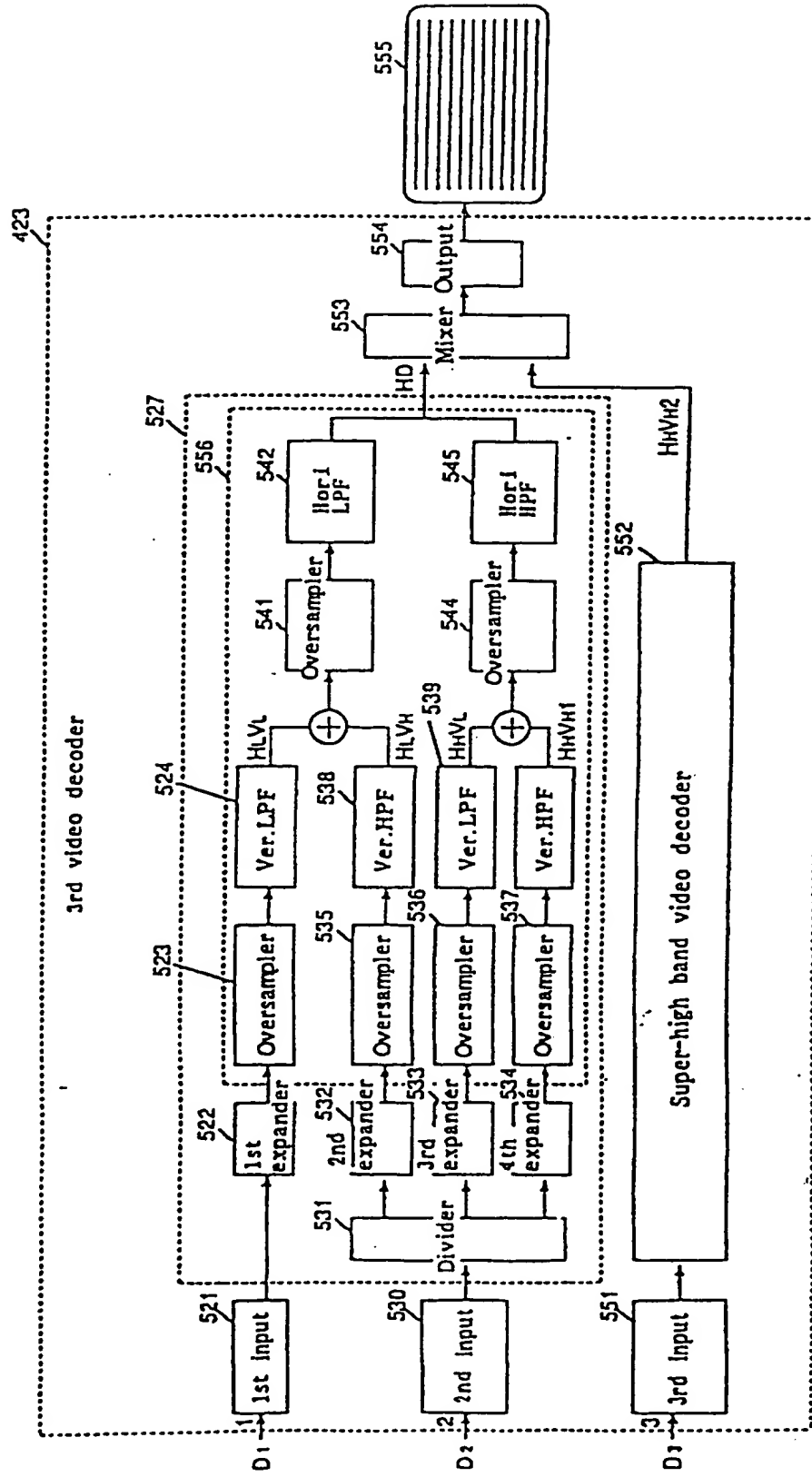


FIG. 34

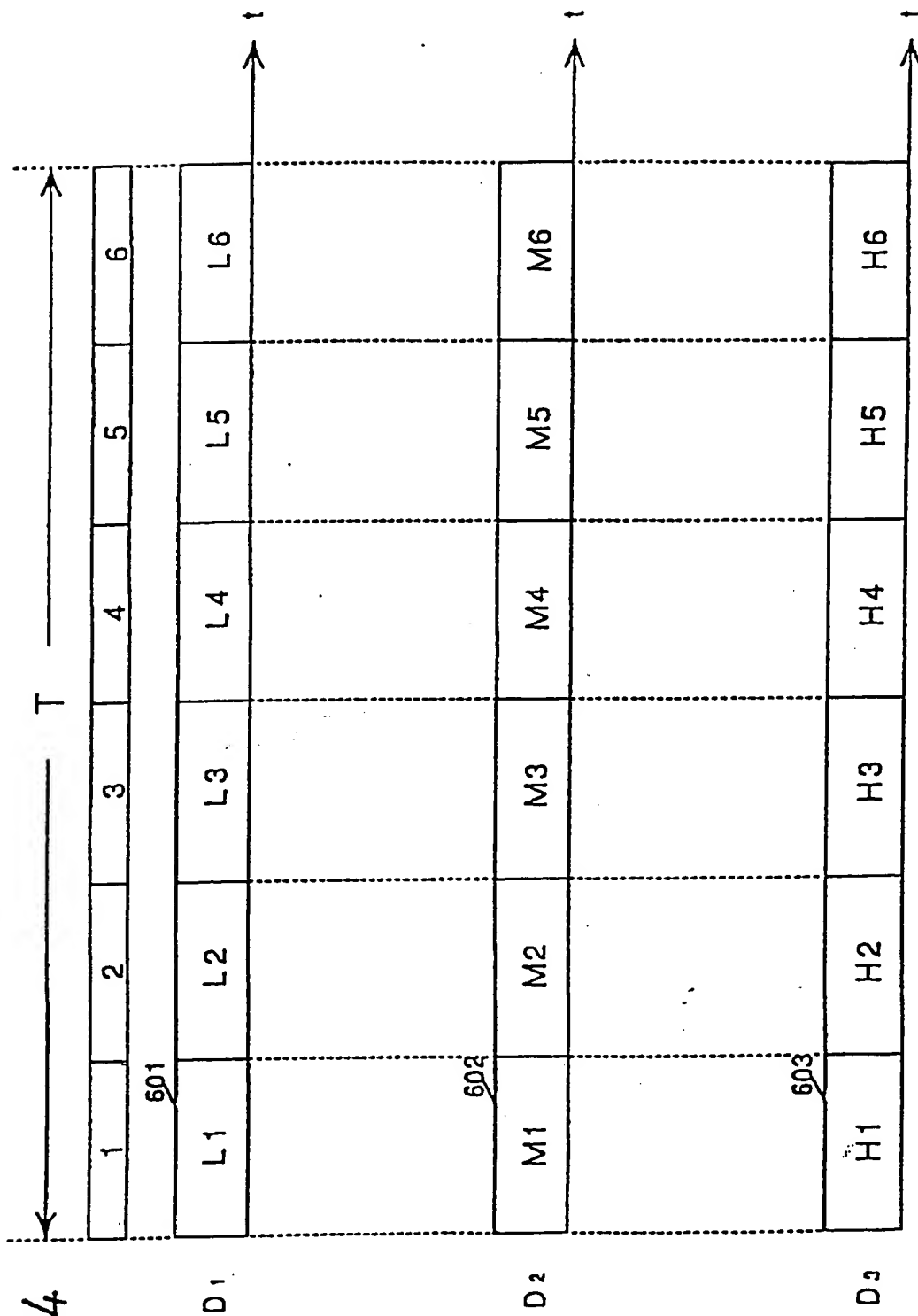


FIG. 35

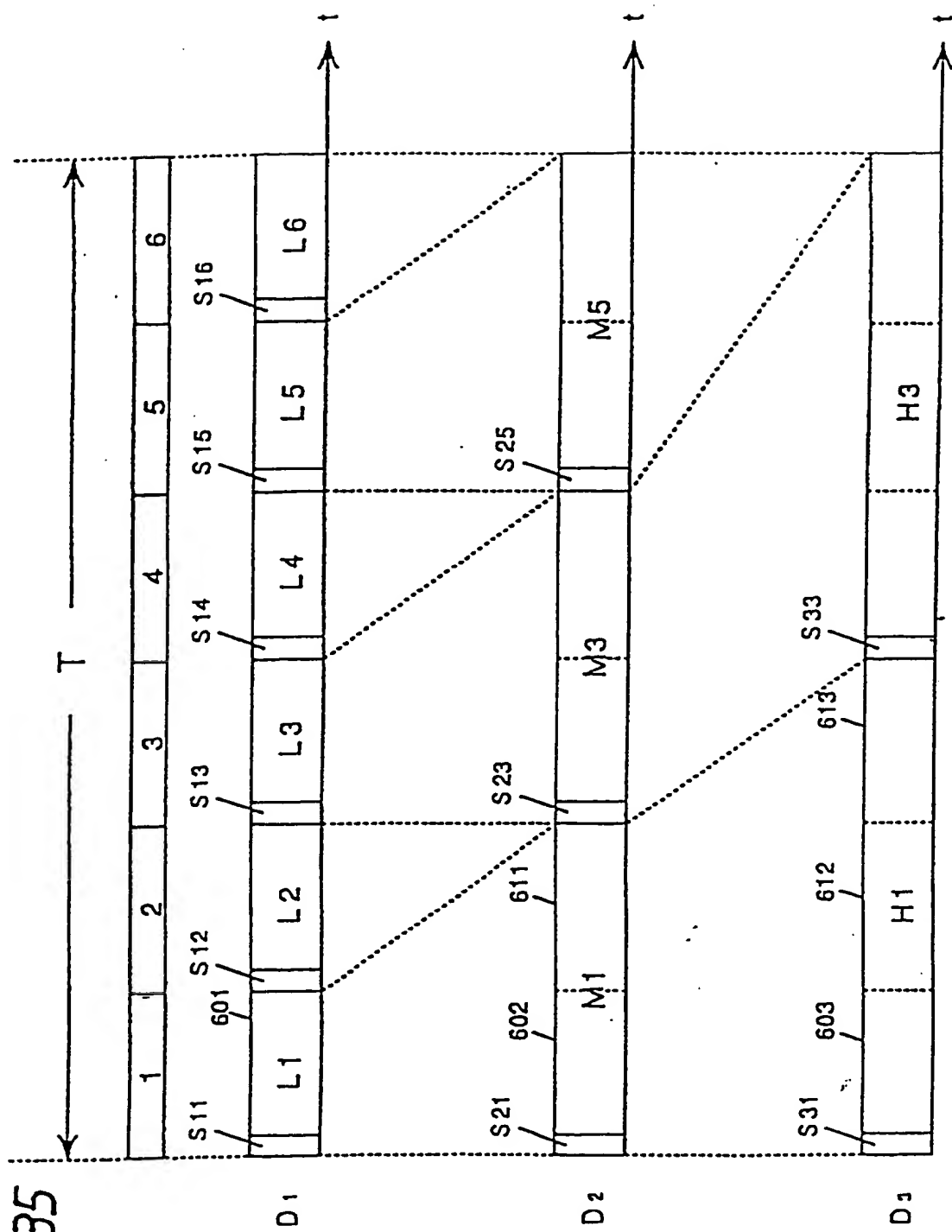


FIG. 36

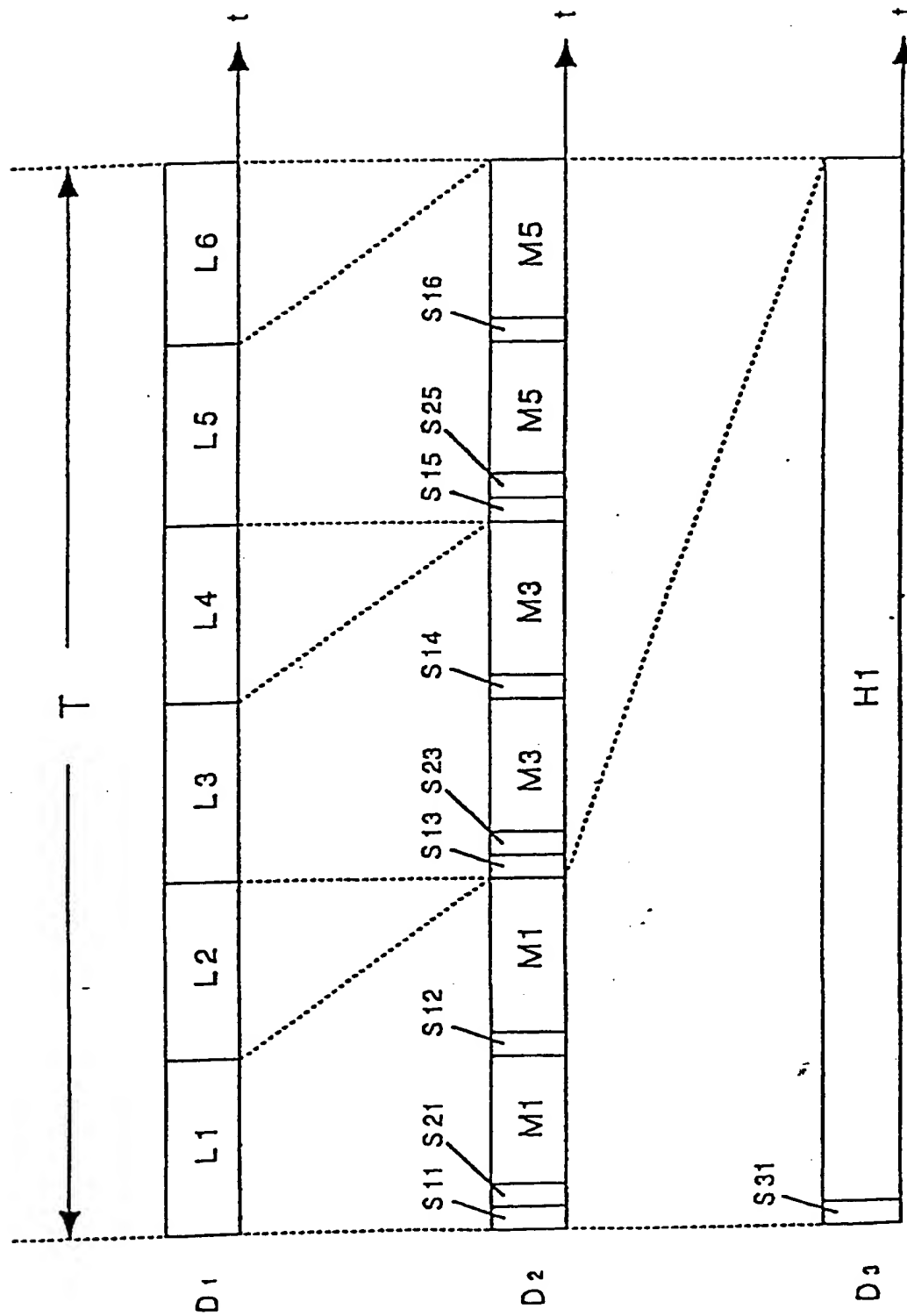


FIG. 37

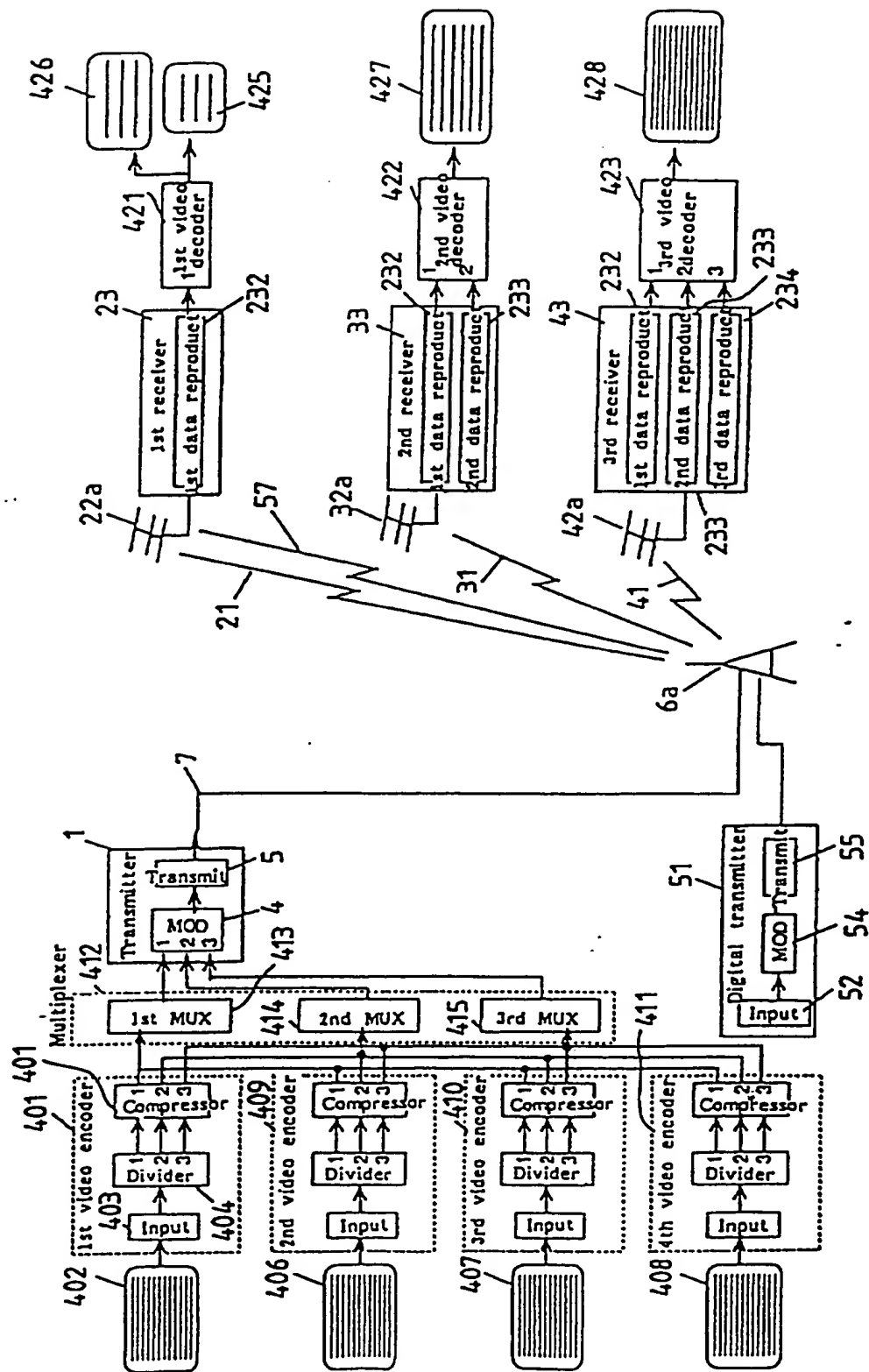


FIG. 38

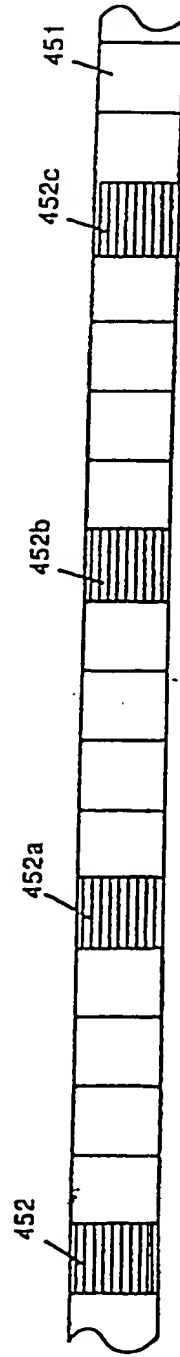
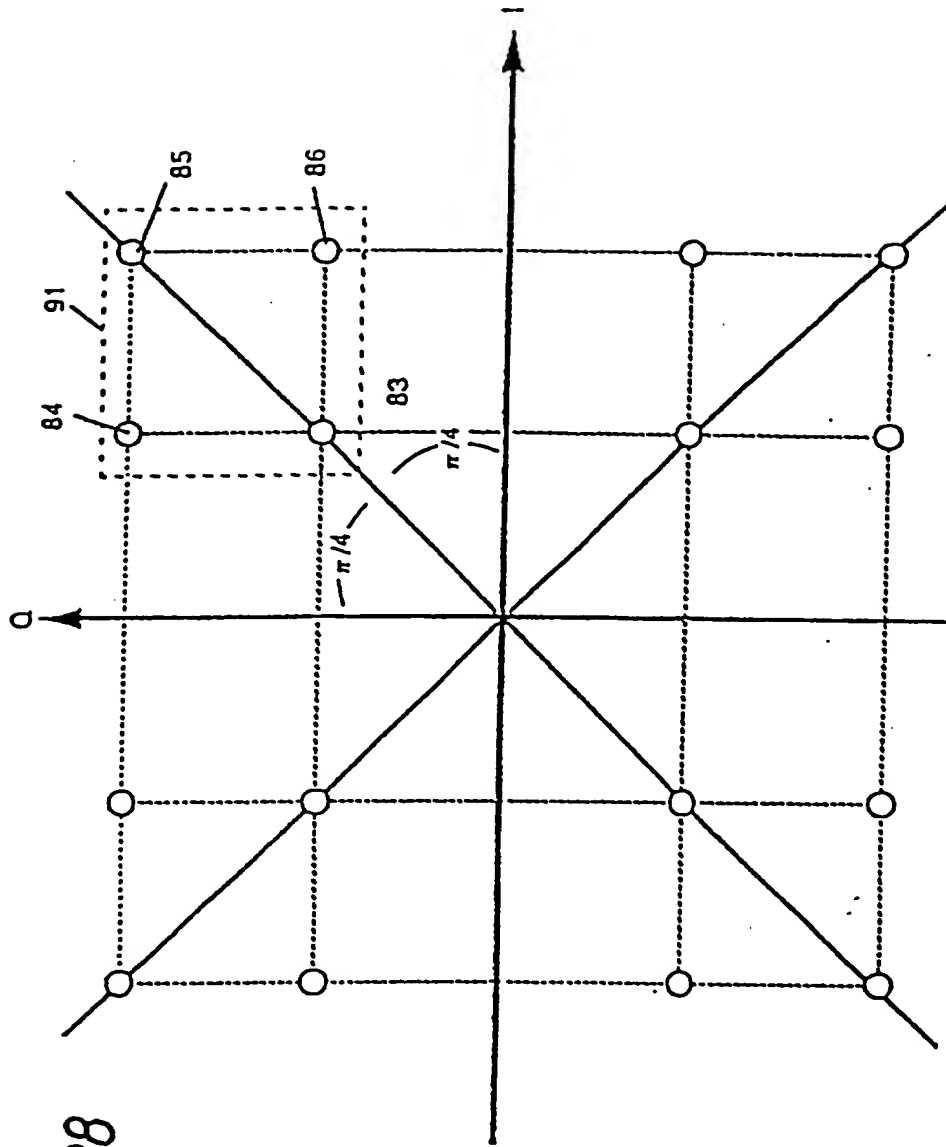


FIG. 39

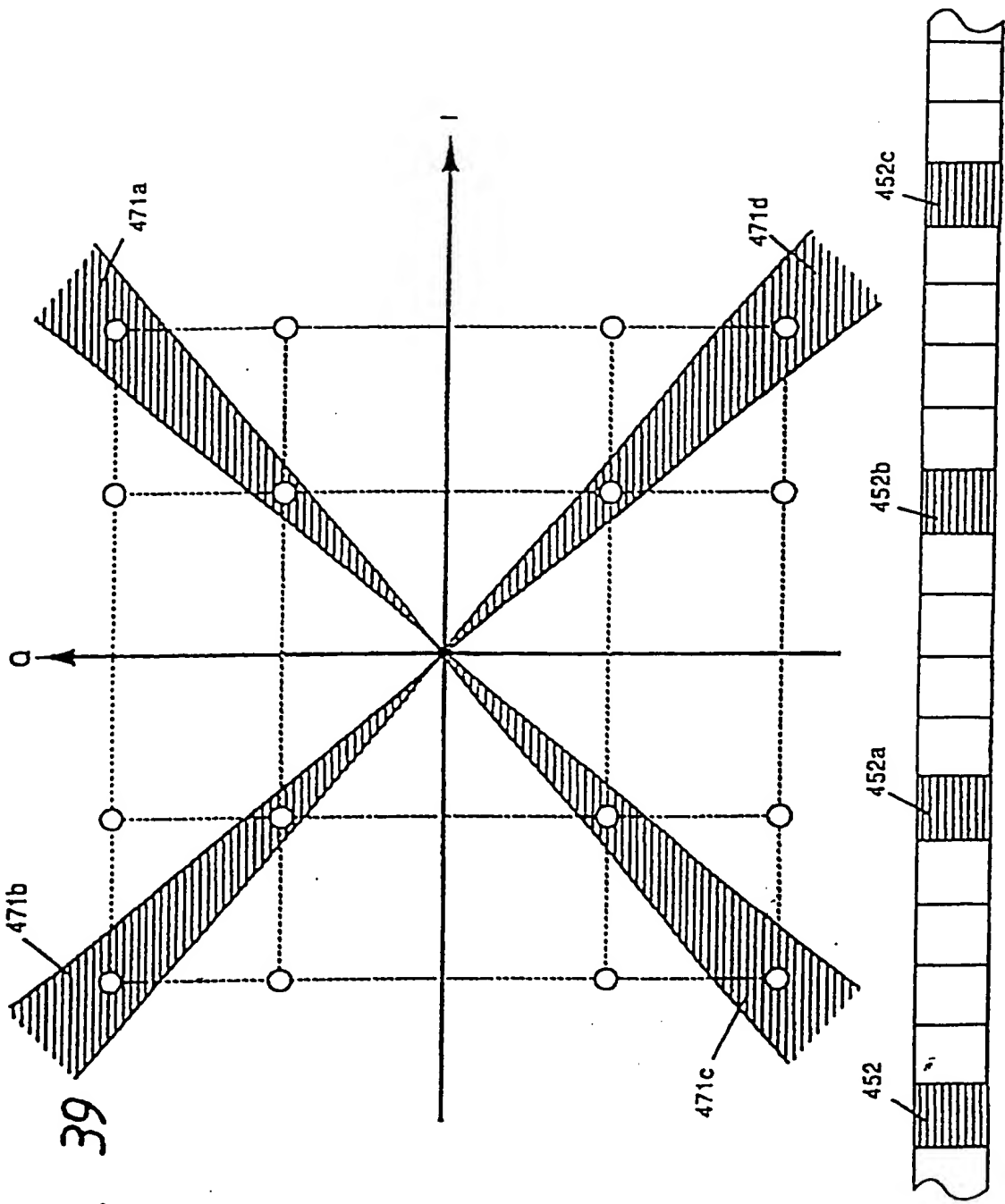


FIG. 40

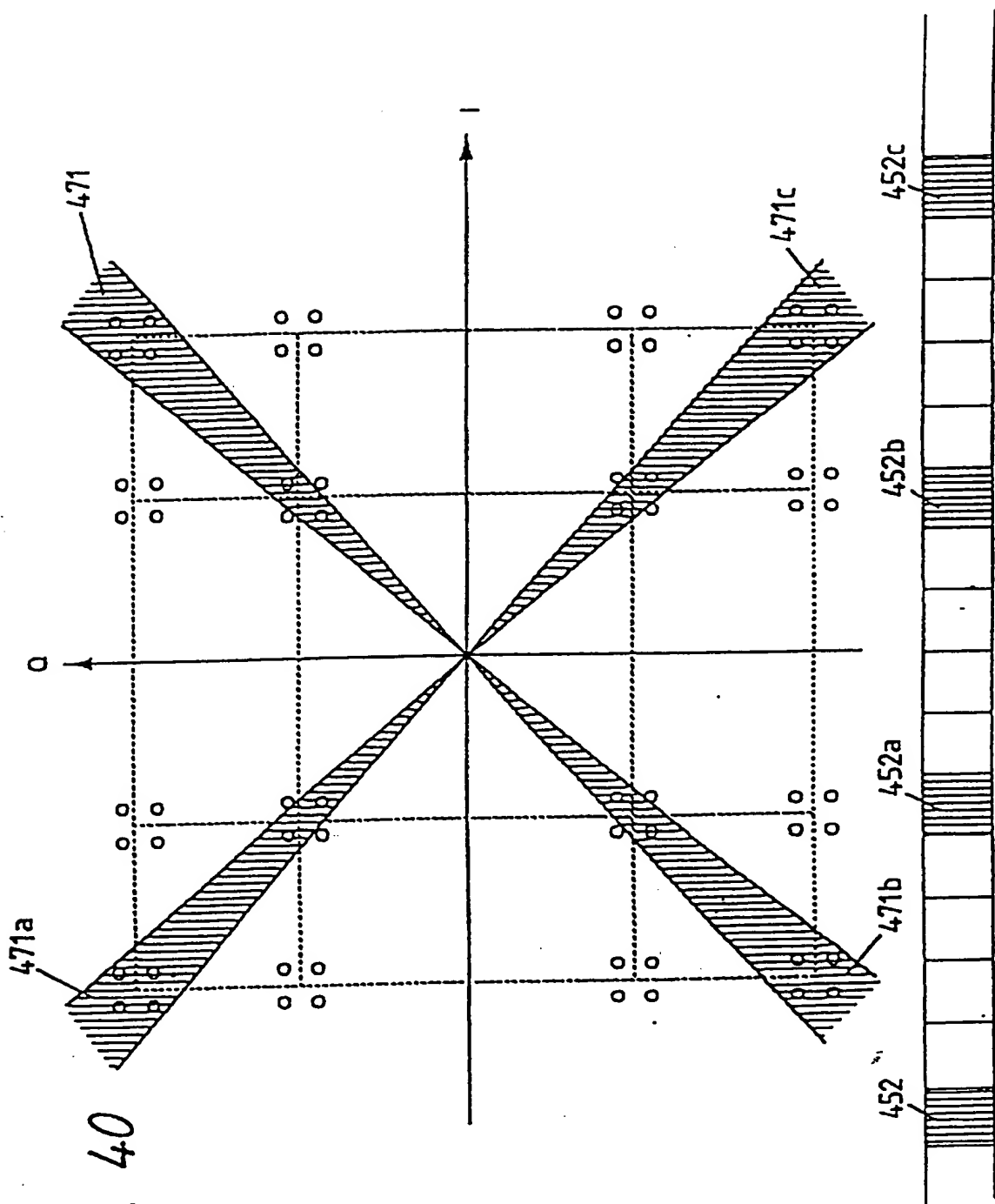




FIG. 41

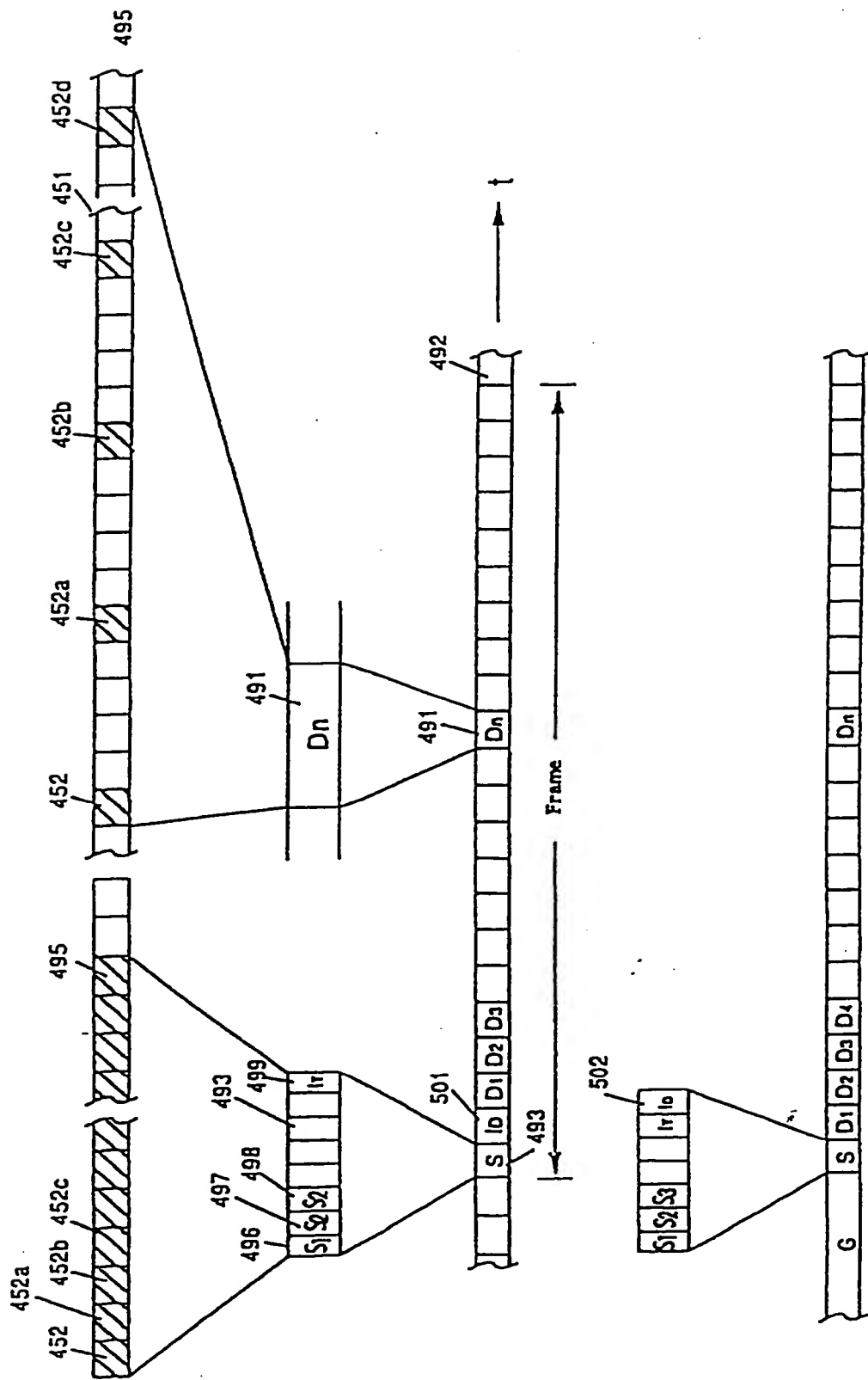


FIG. 42

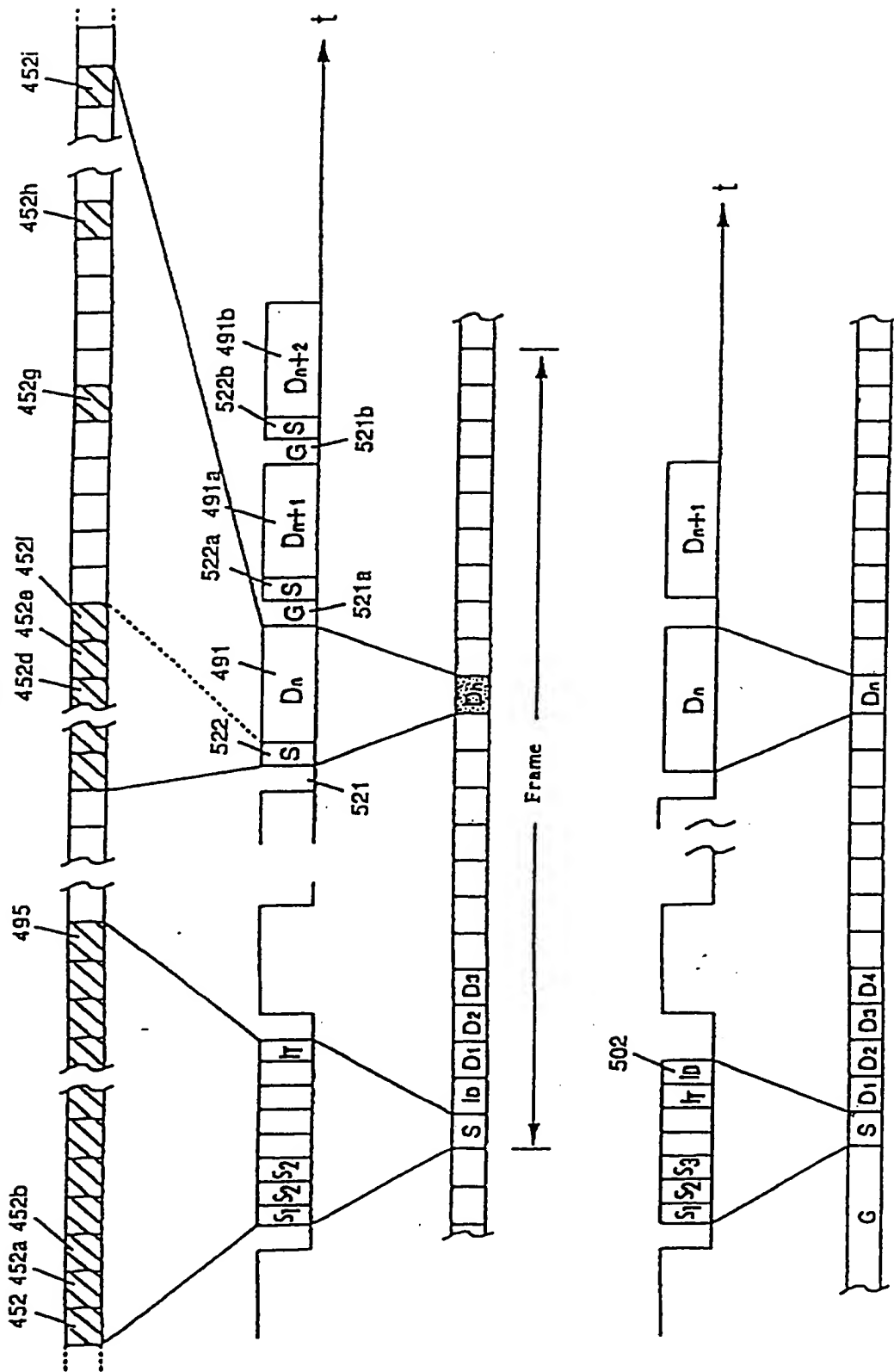


FIG. 43

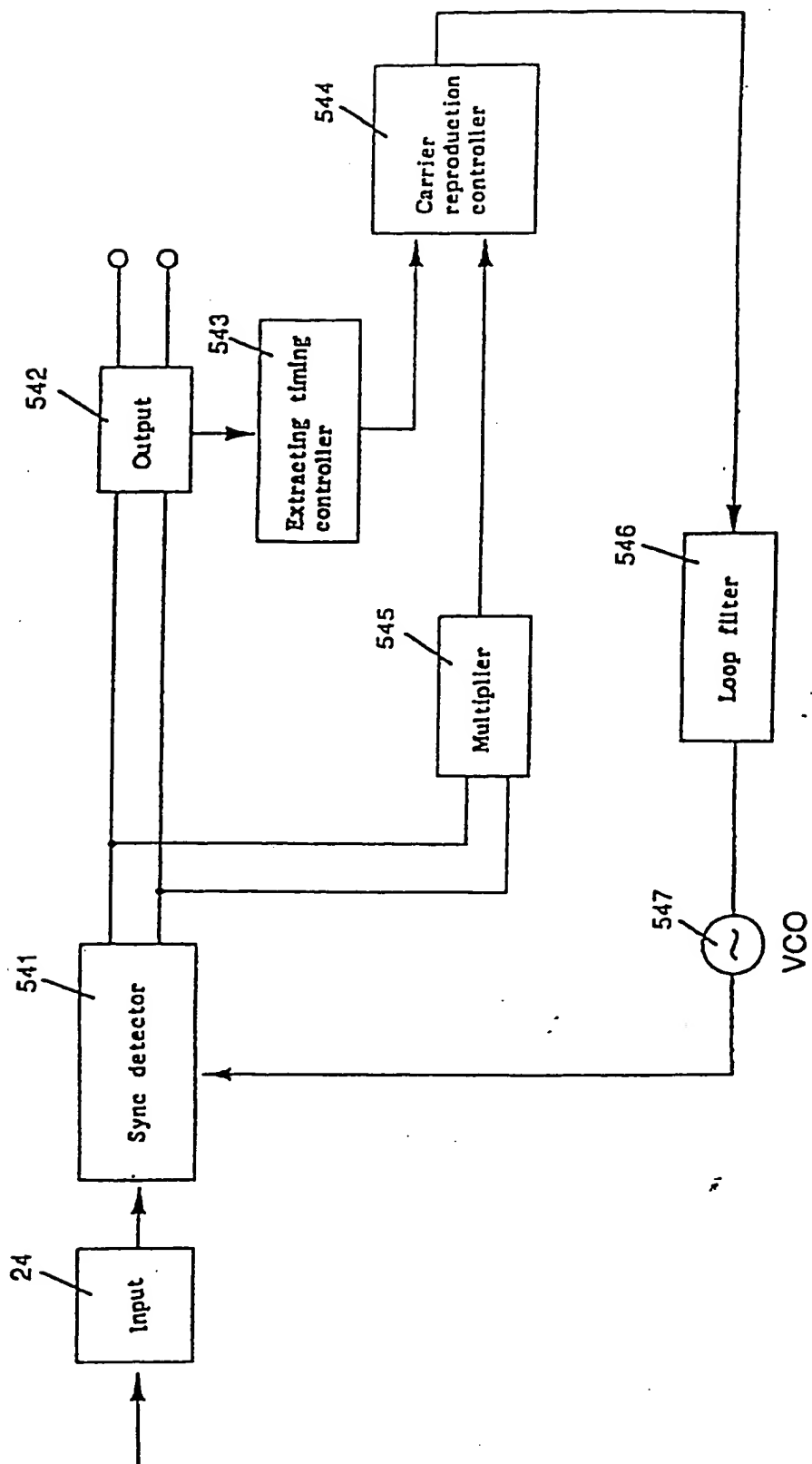


FIG. 44

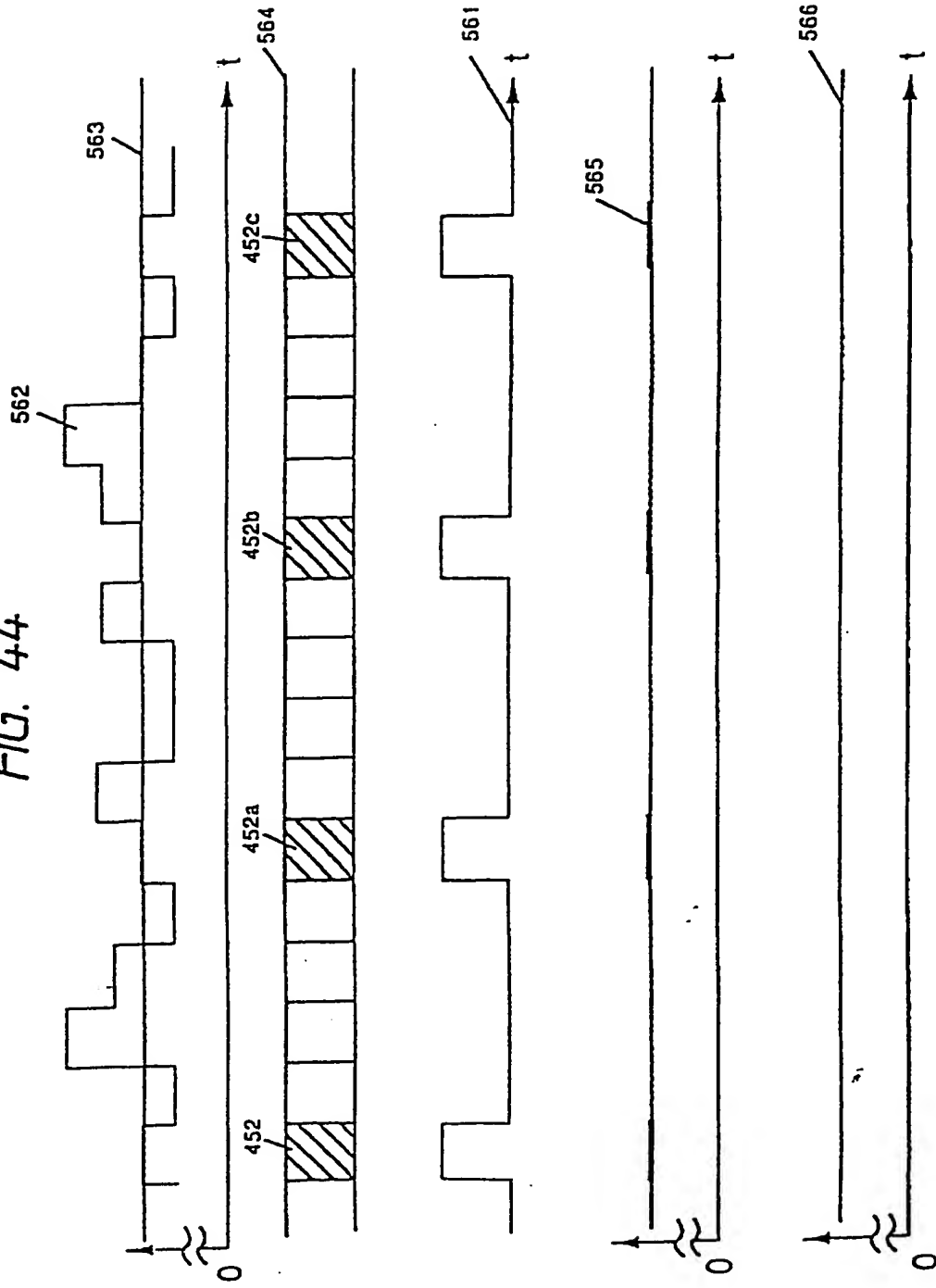


FIG. 45

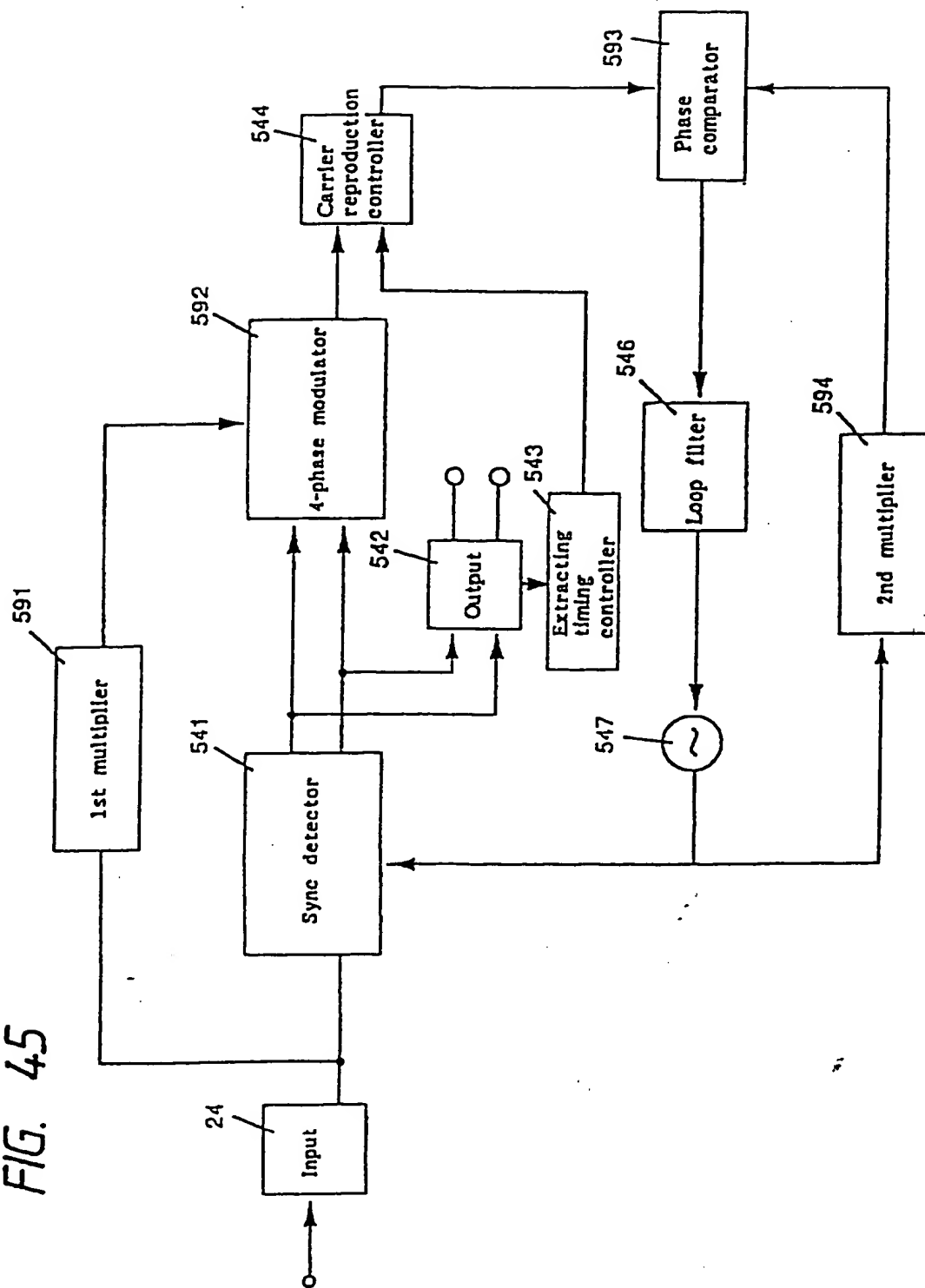


FIG. 46

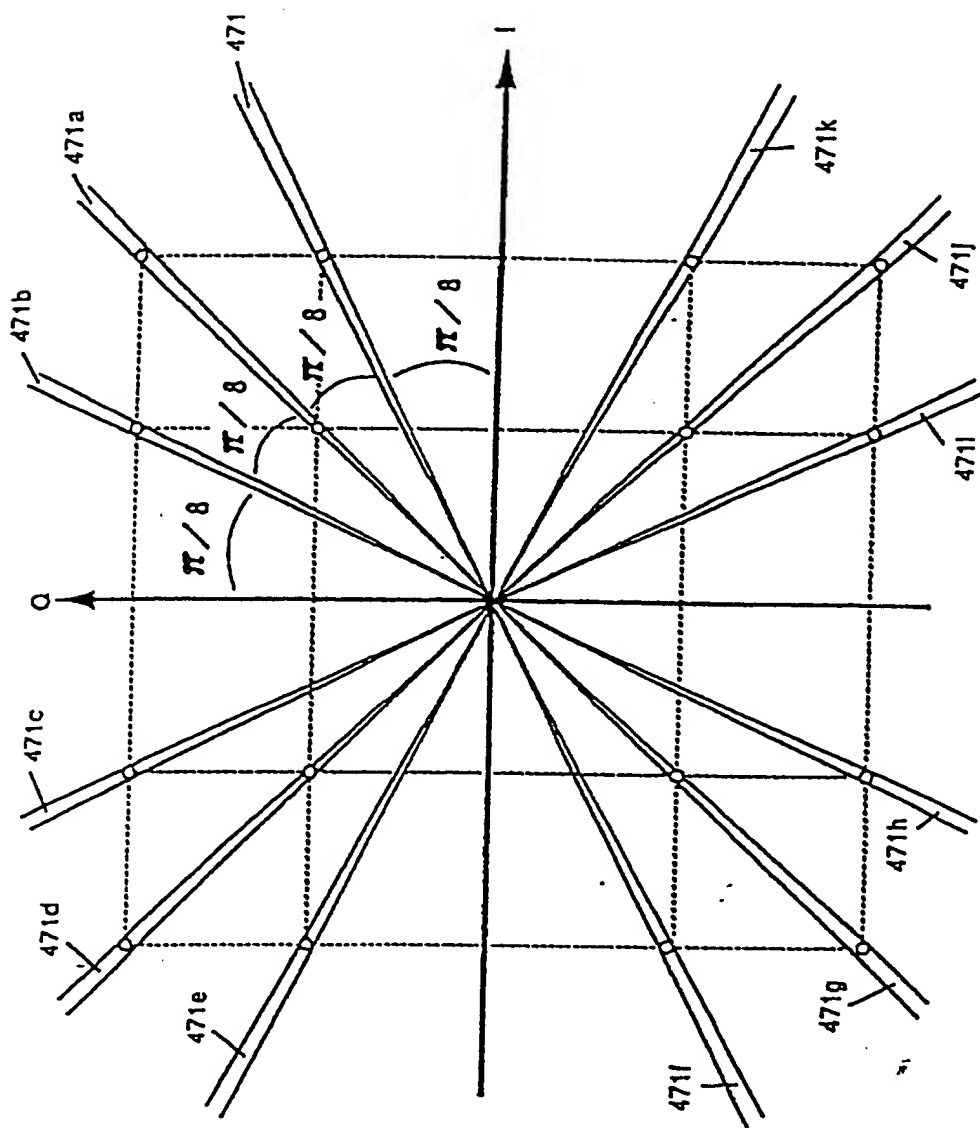


FIG. 47

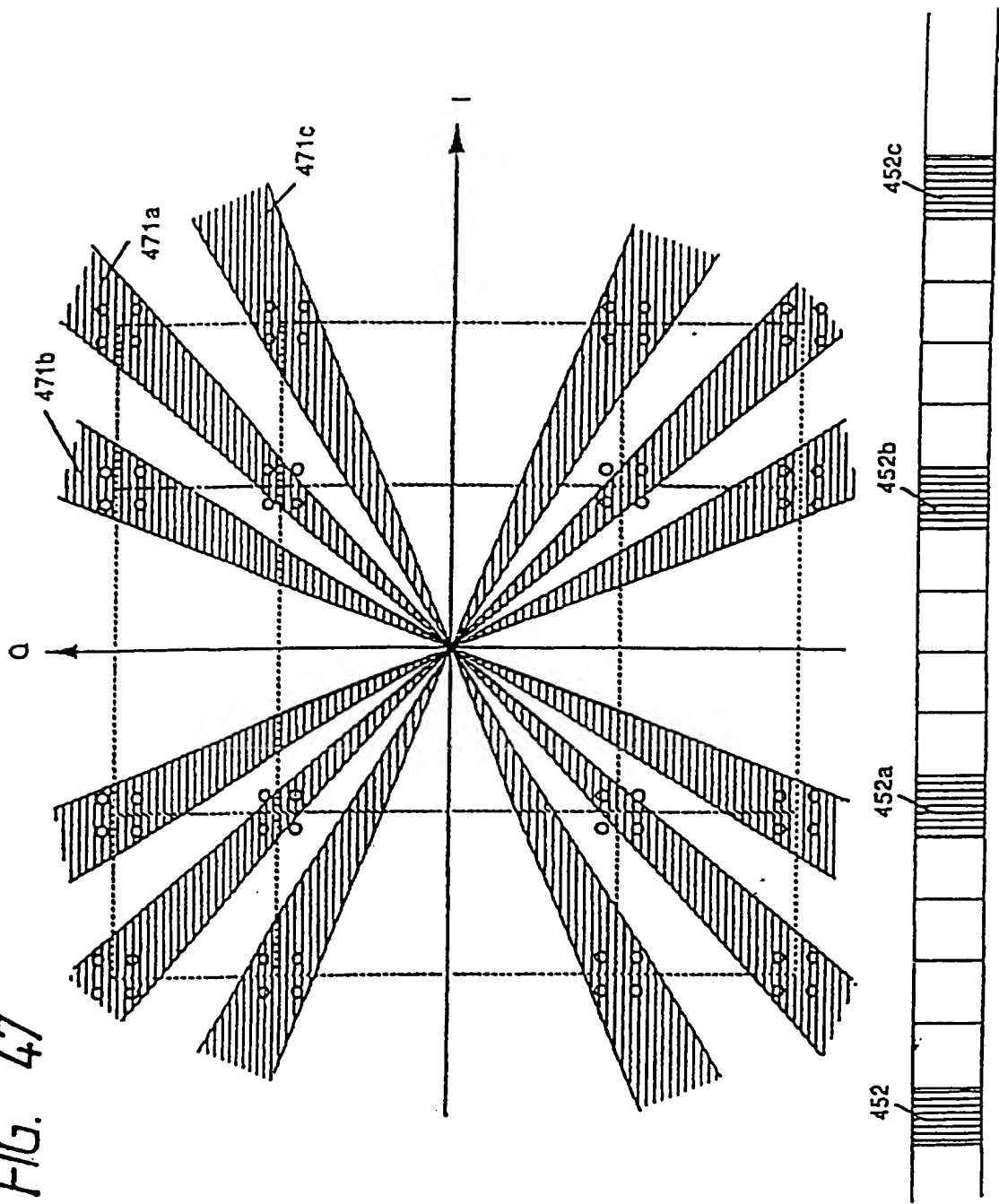


FIG. 48

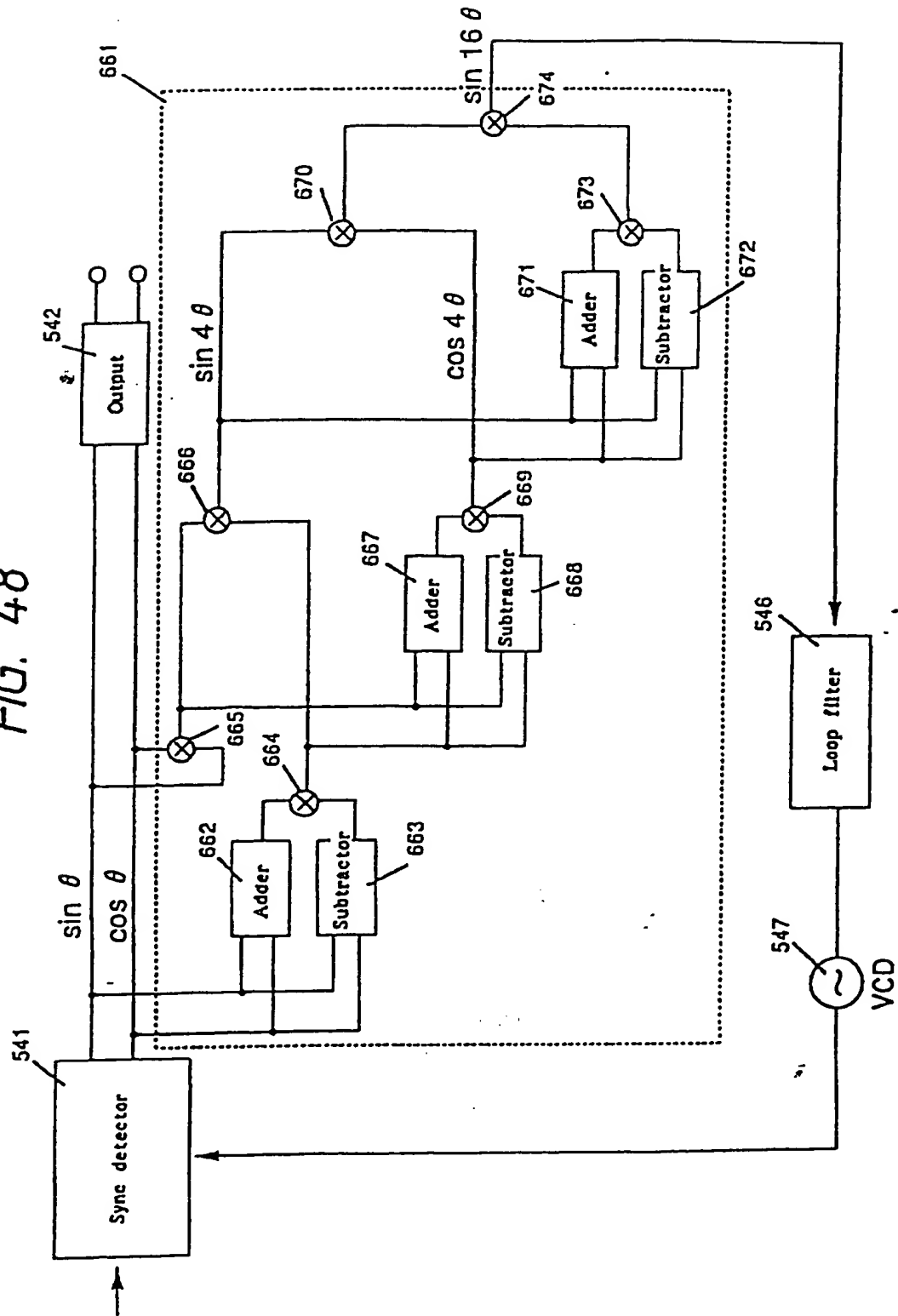




FIG. 49

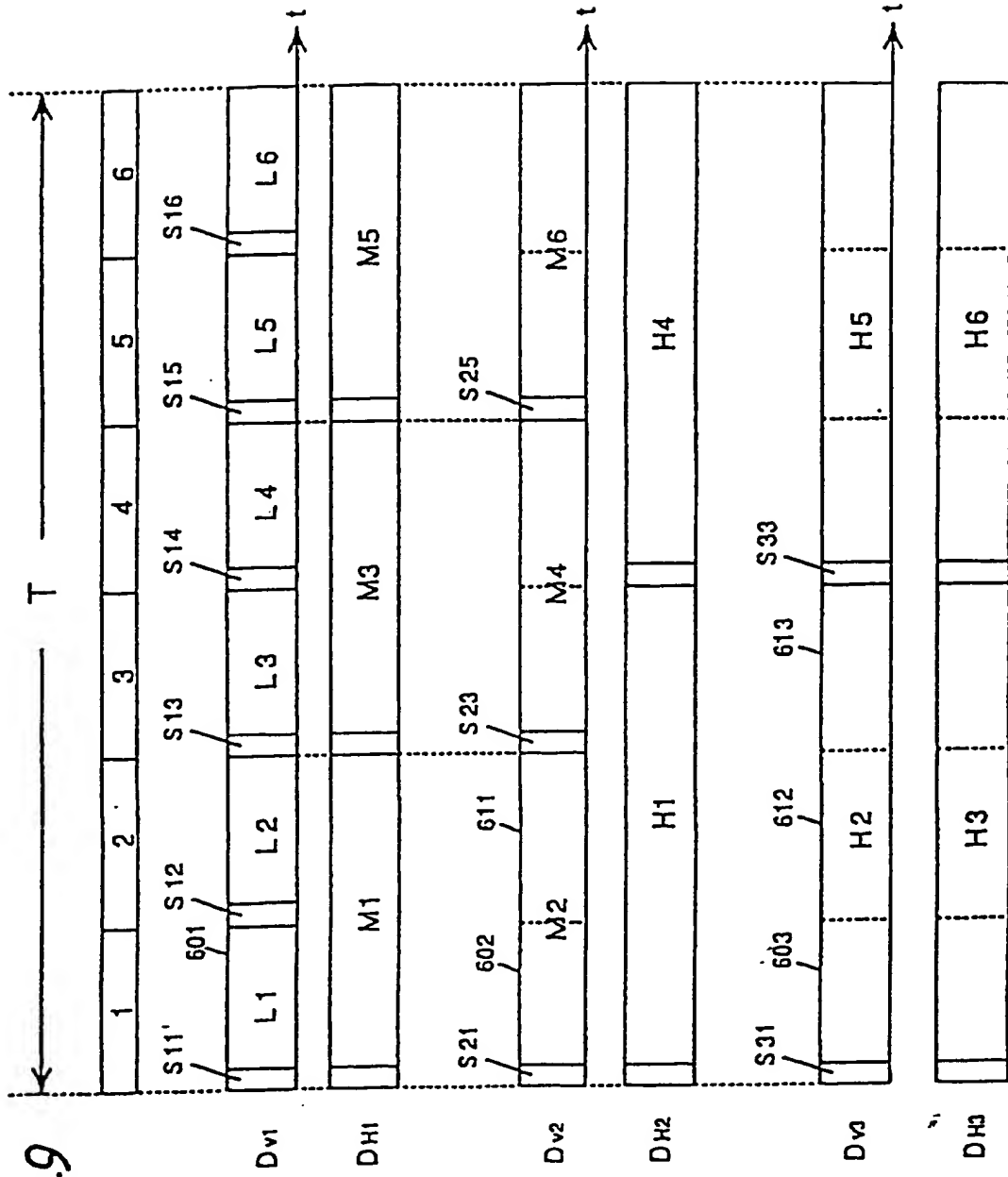


FIG. 50

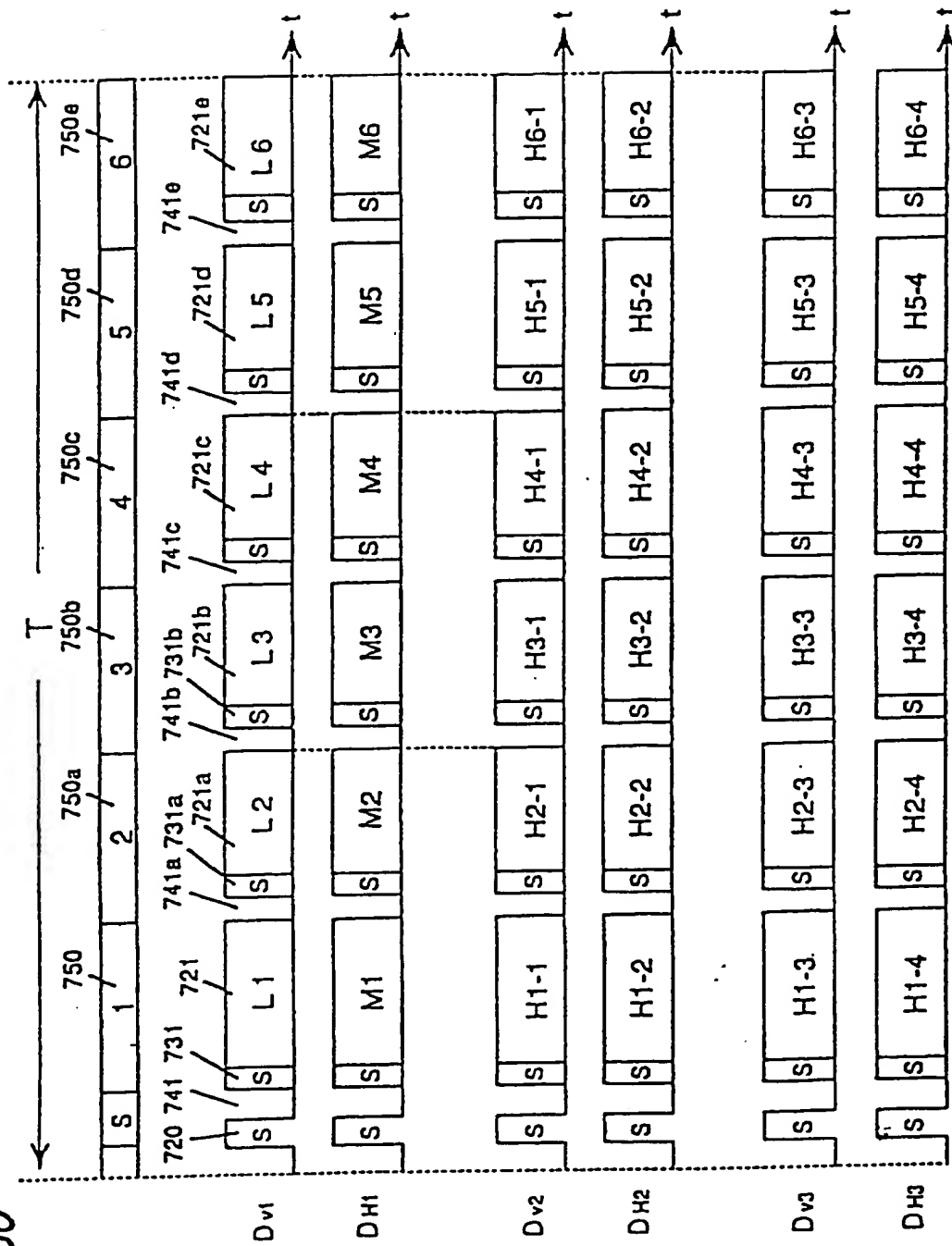


FIG. 51

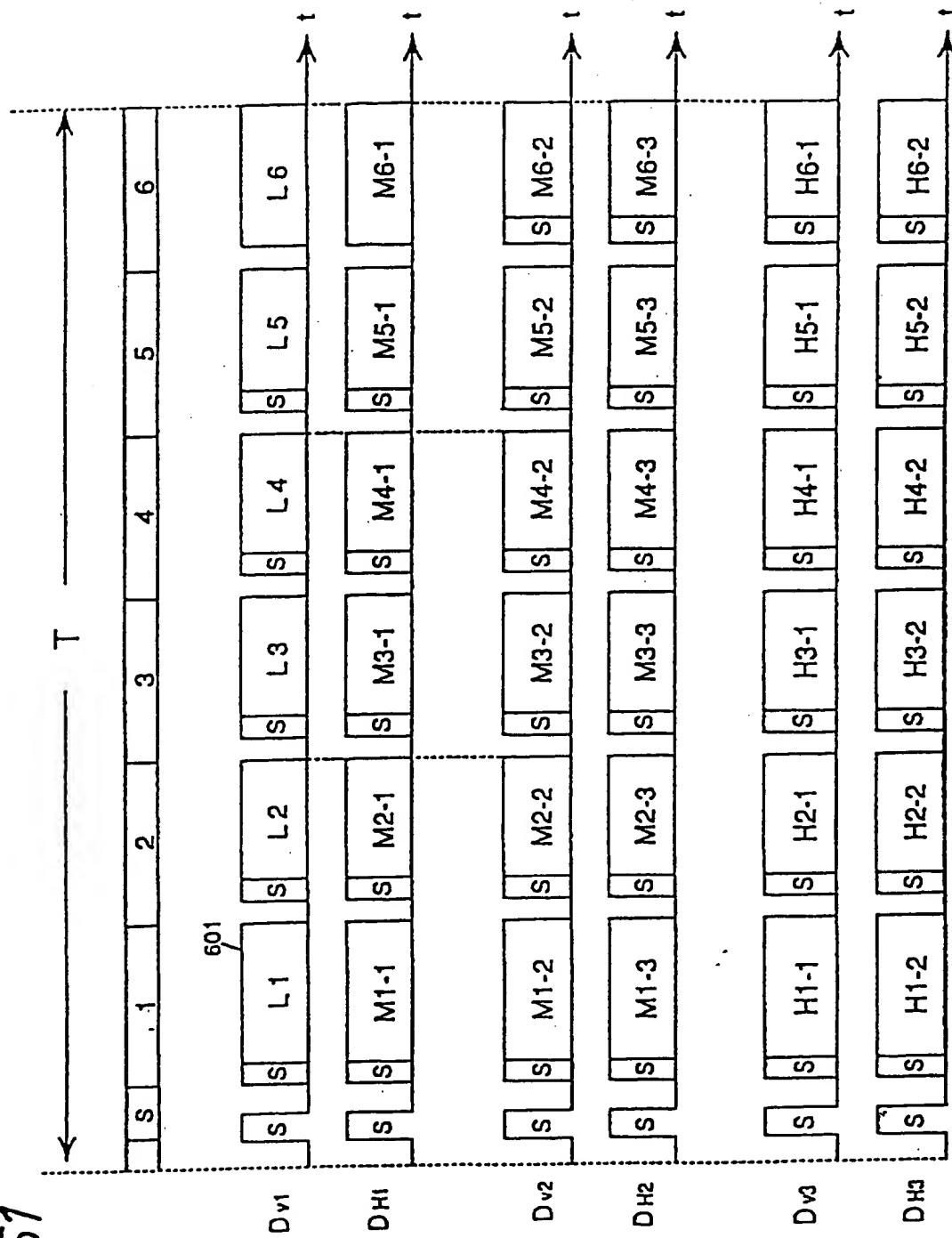


FIG. 52

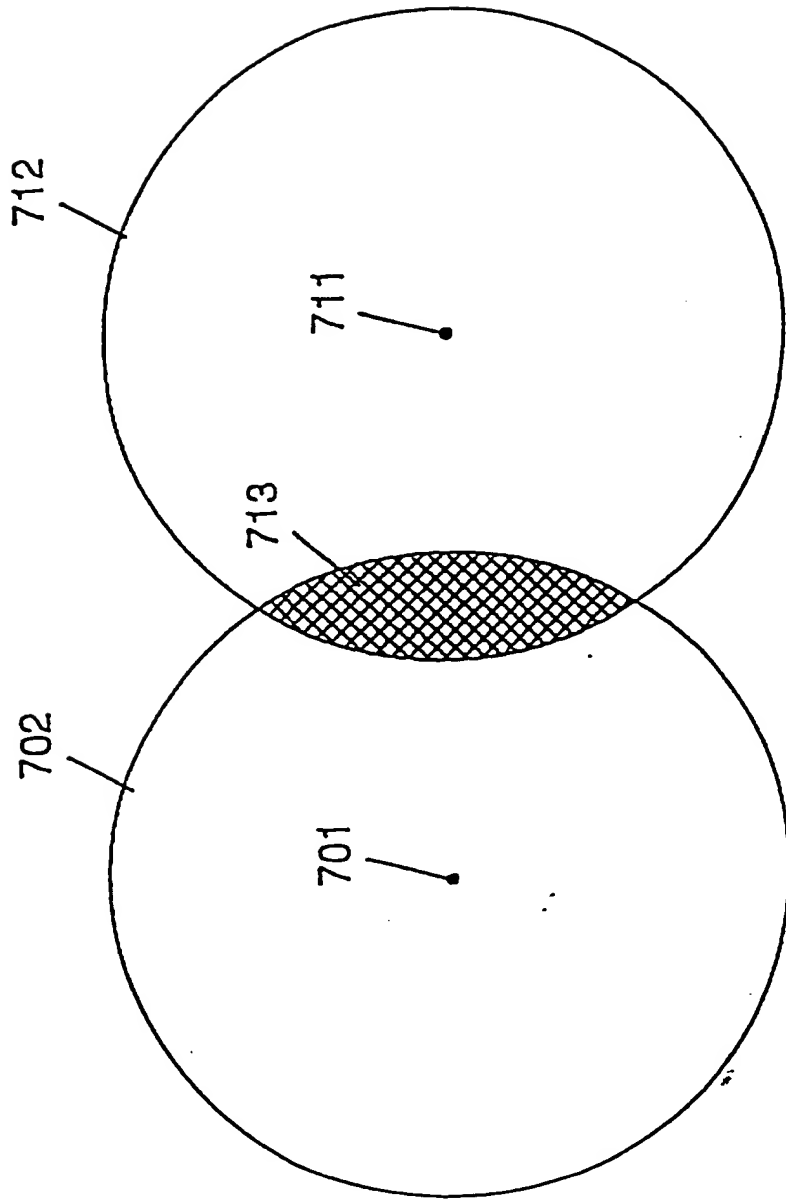


FIG. 53

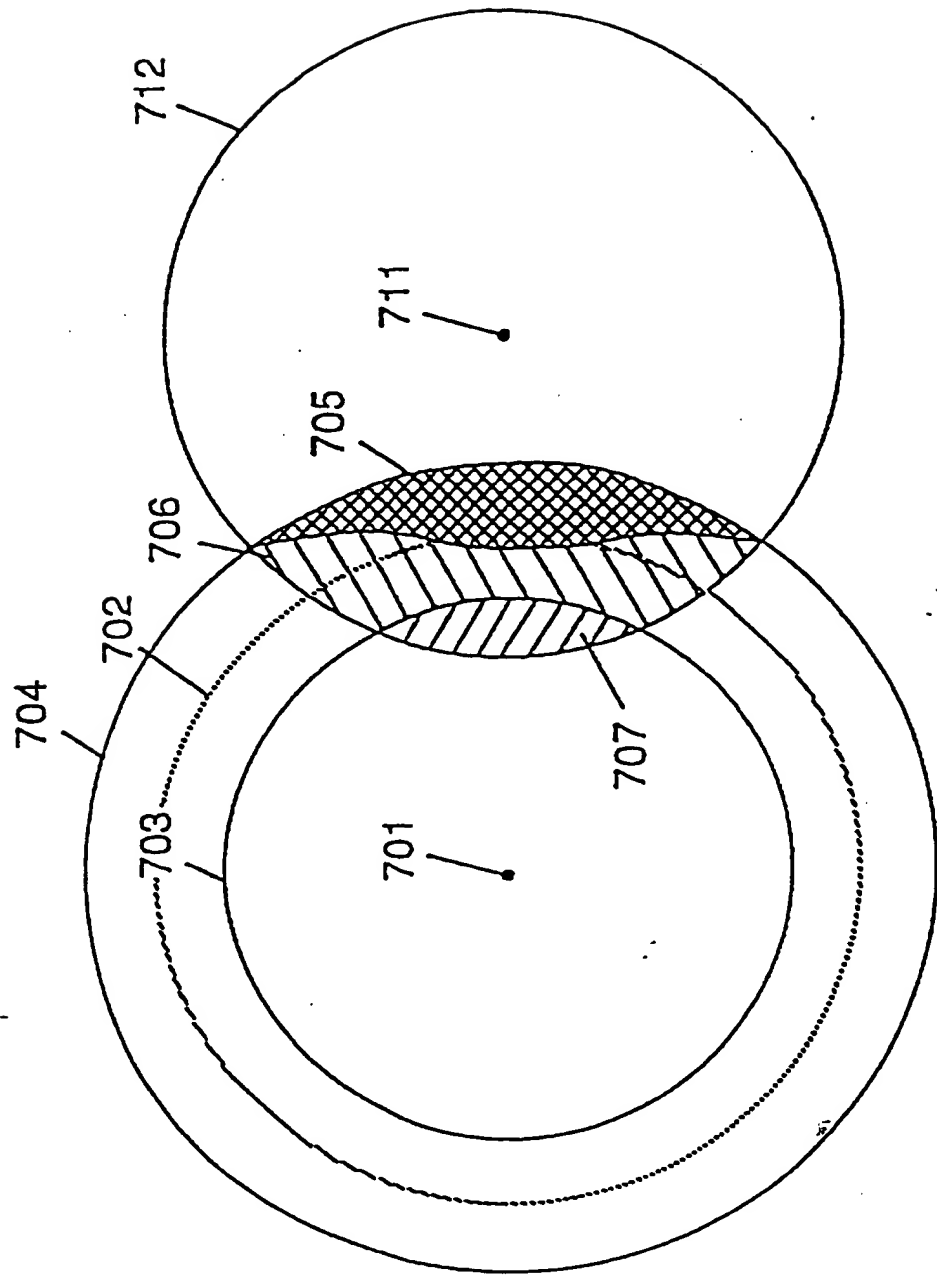


FIG. 54

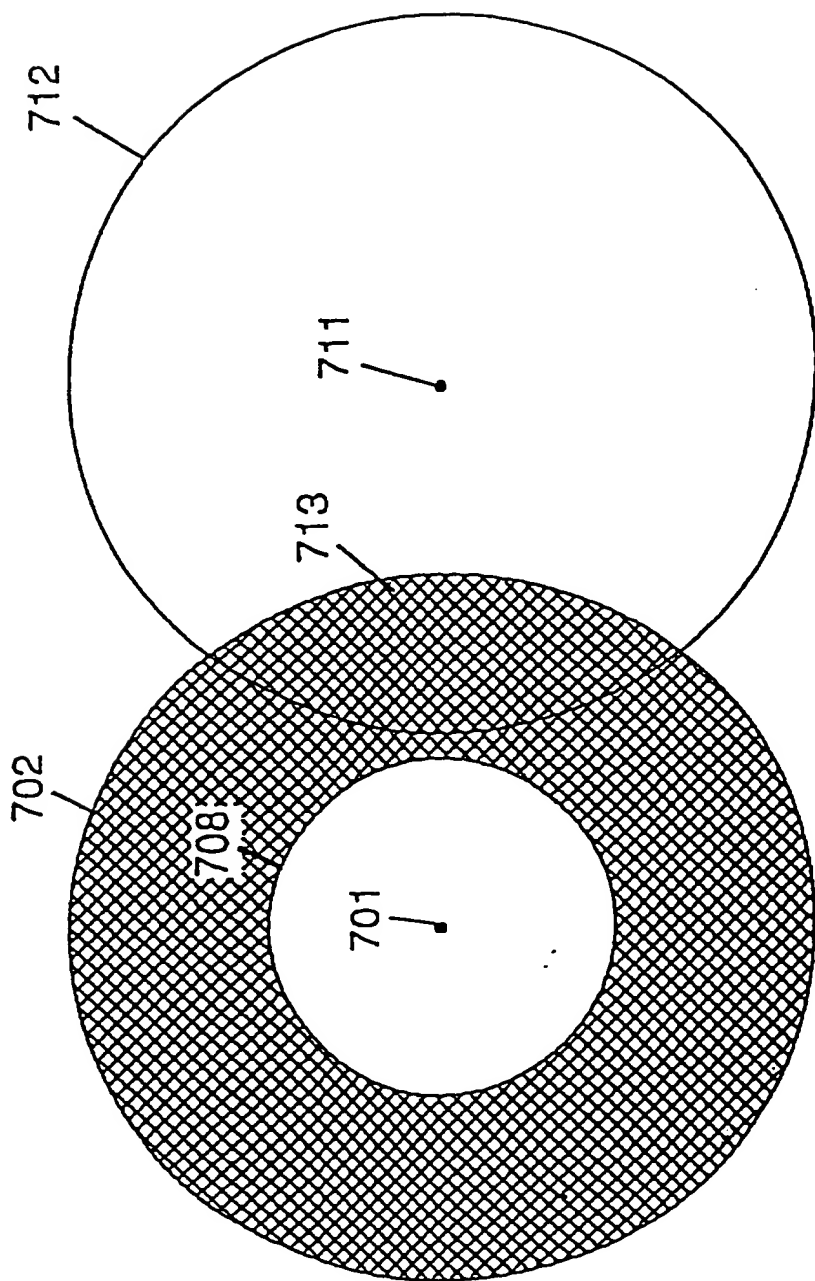


FIG. 55

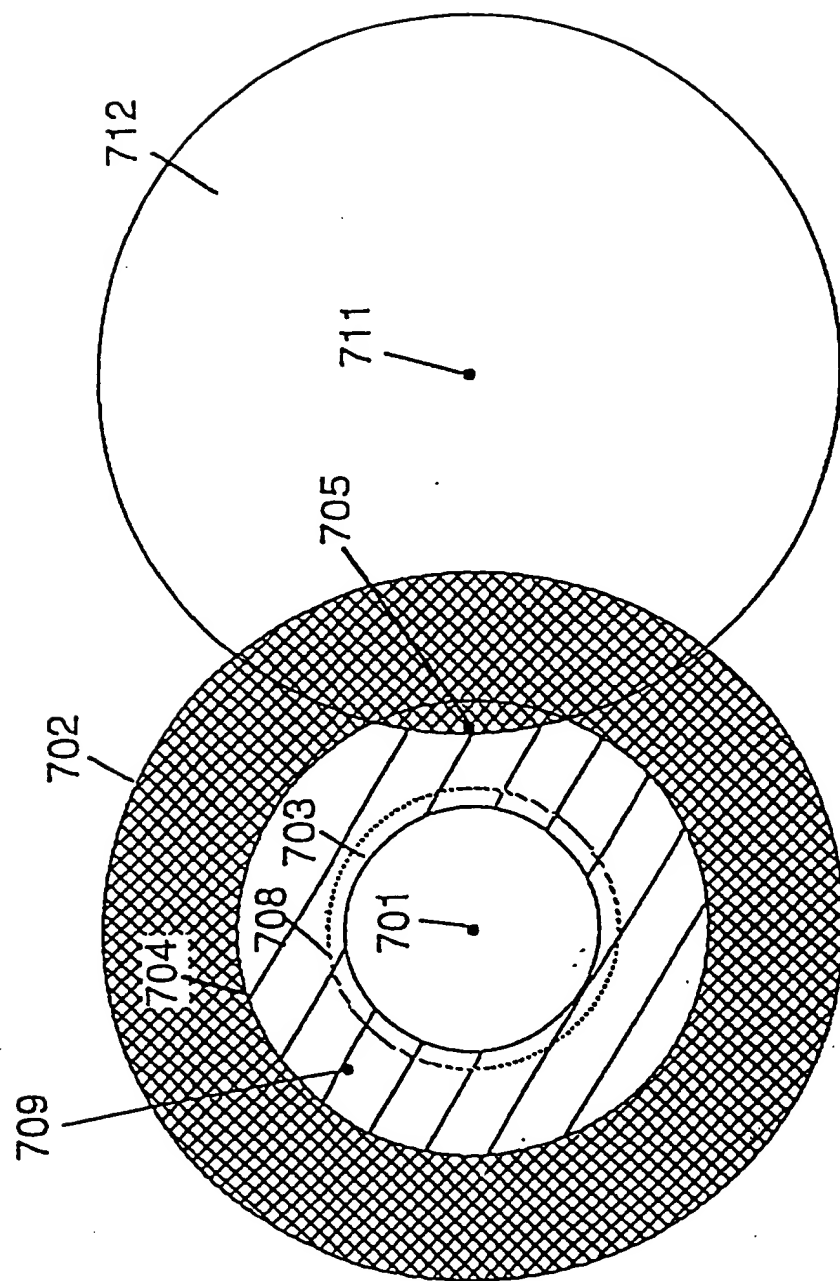


FIG. 56

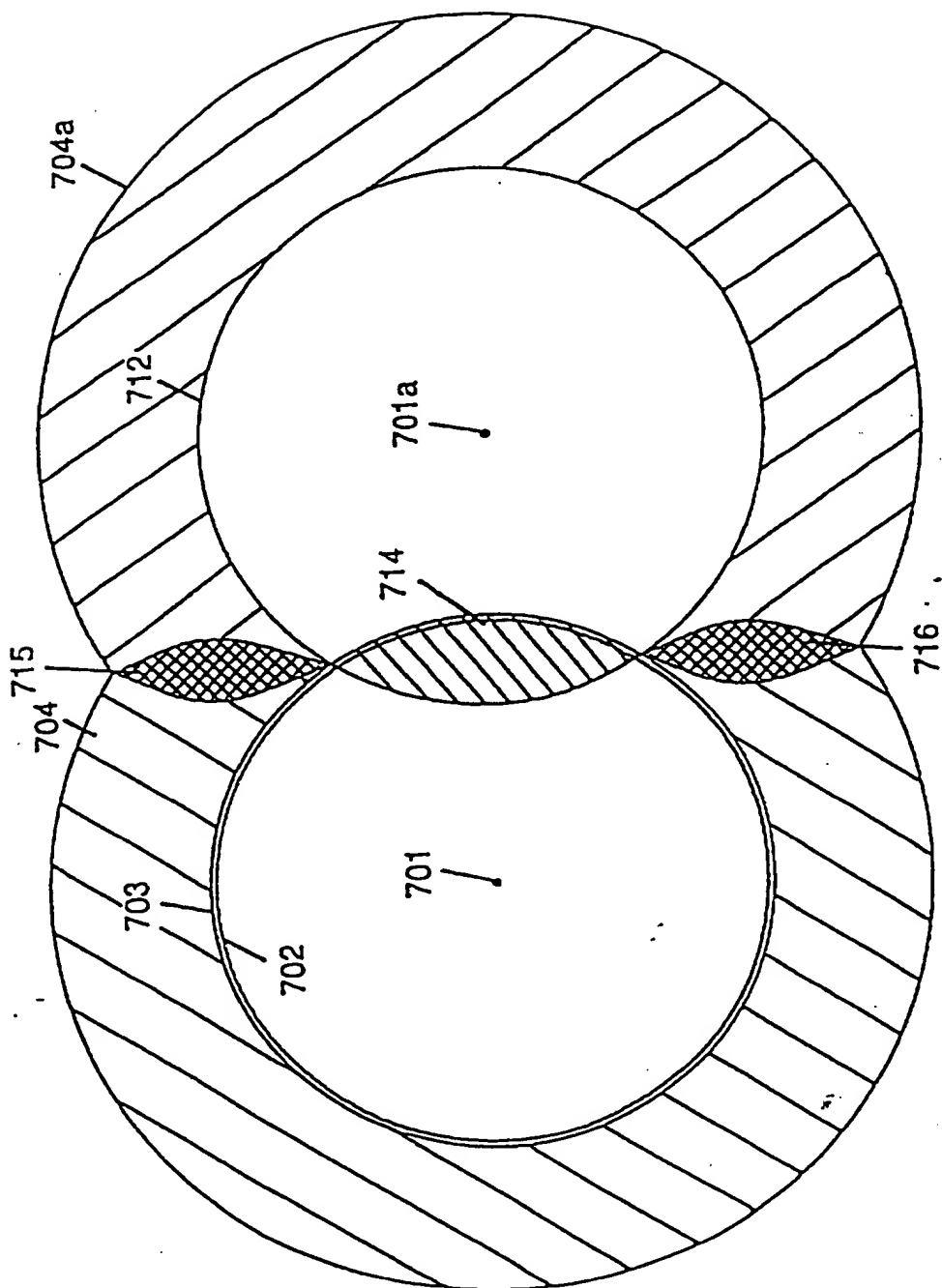




FIG. 57

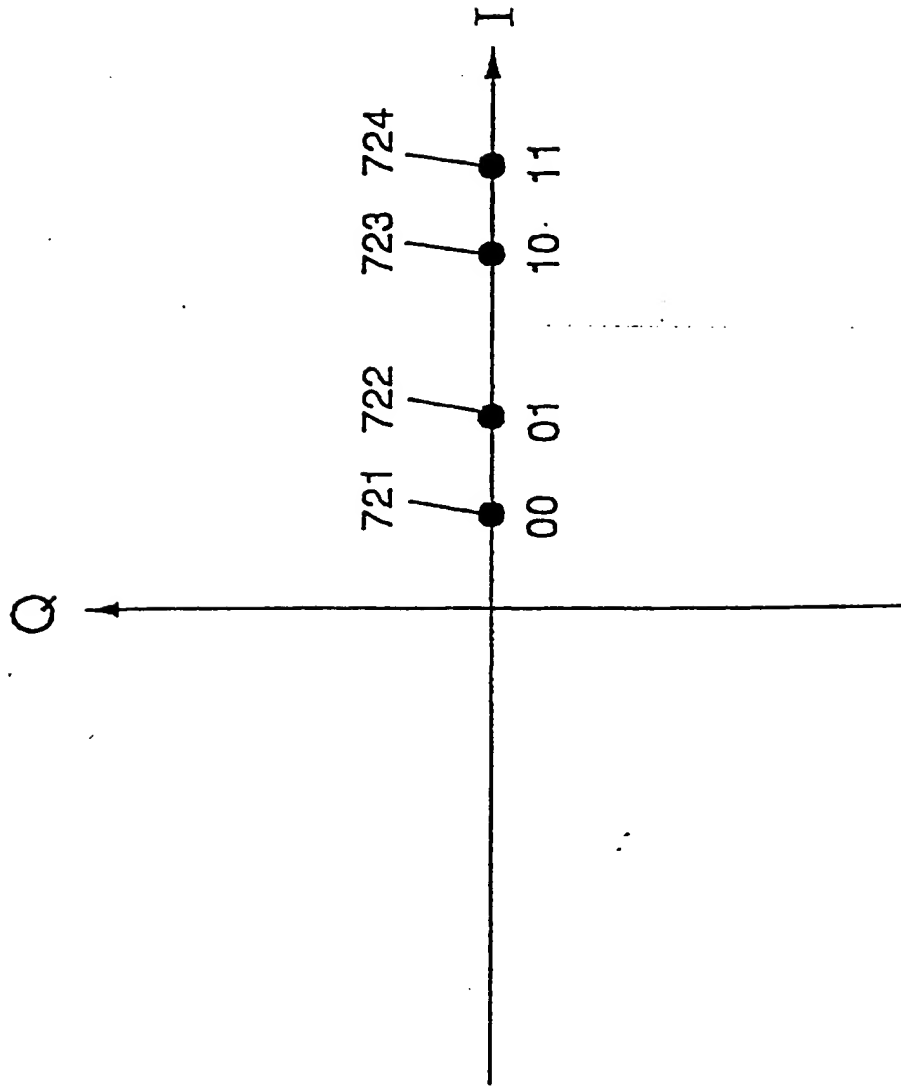


FIG. 58

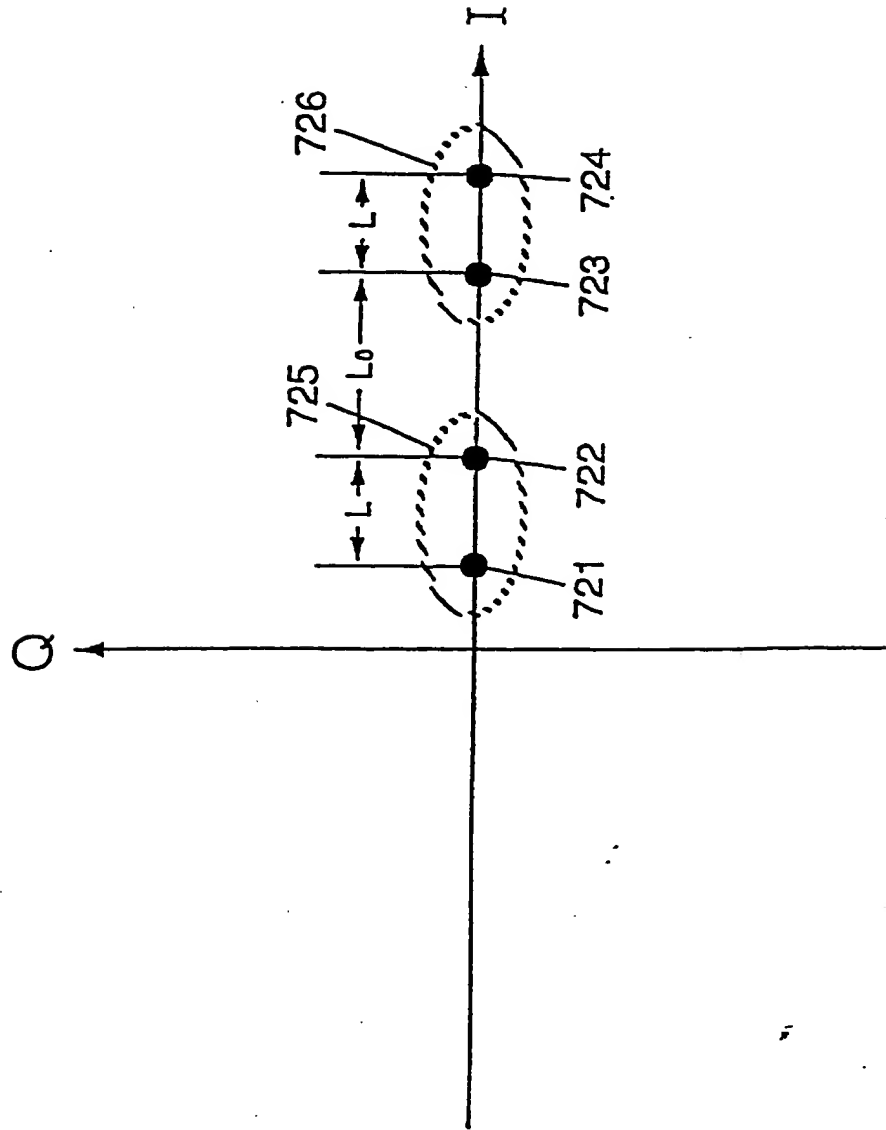


FIG. 59(a)

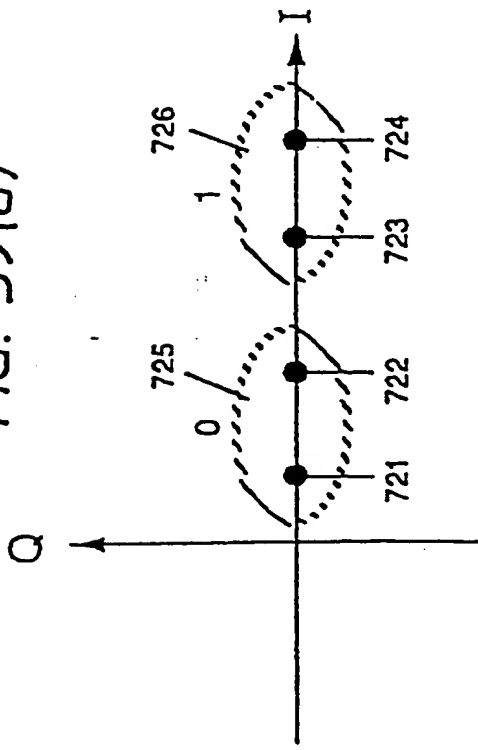


FIG. 59(b)

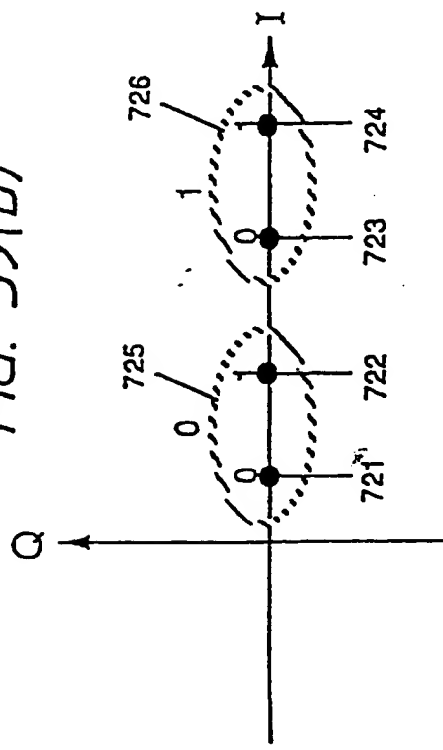


FIG. 59(c)

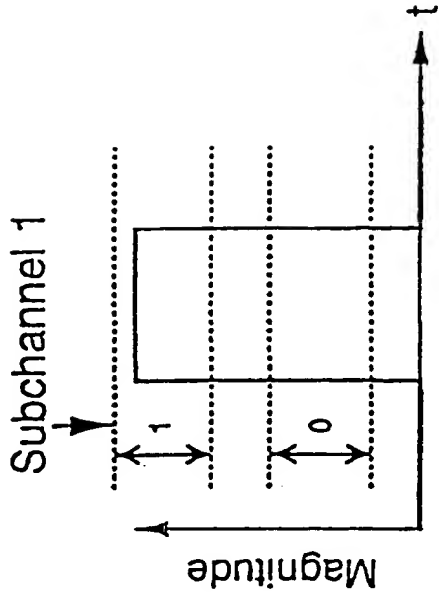


FIG. 59(d)

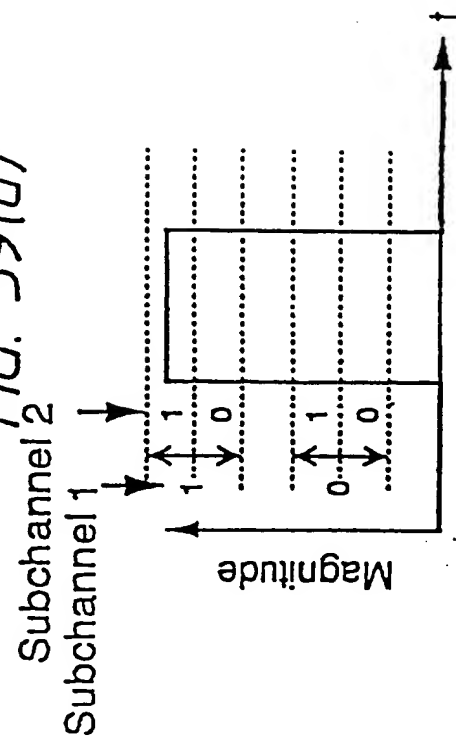


FIG. 60

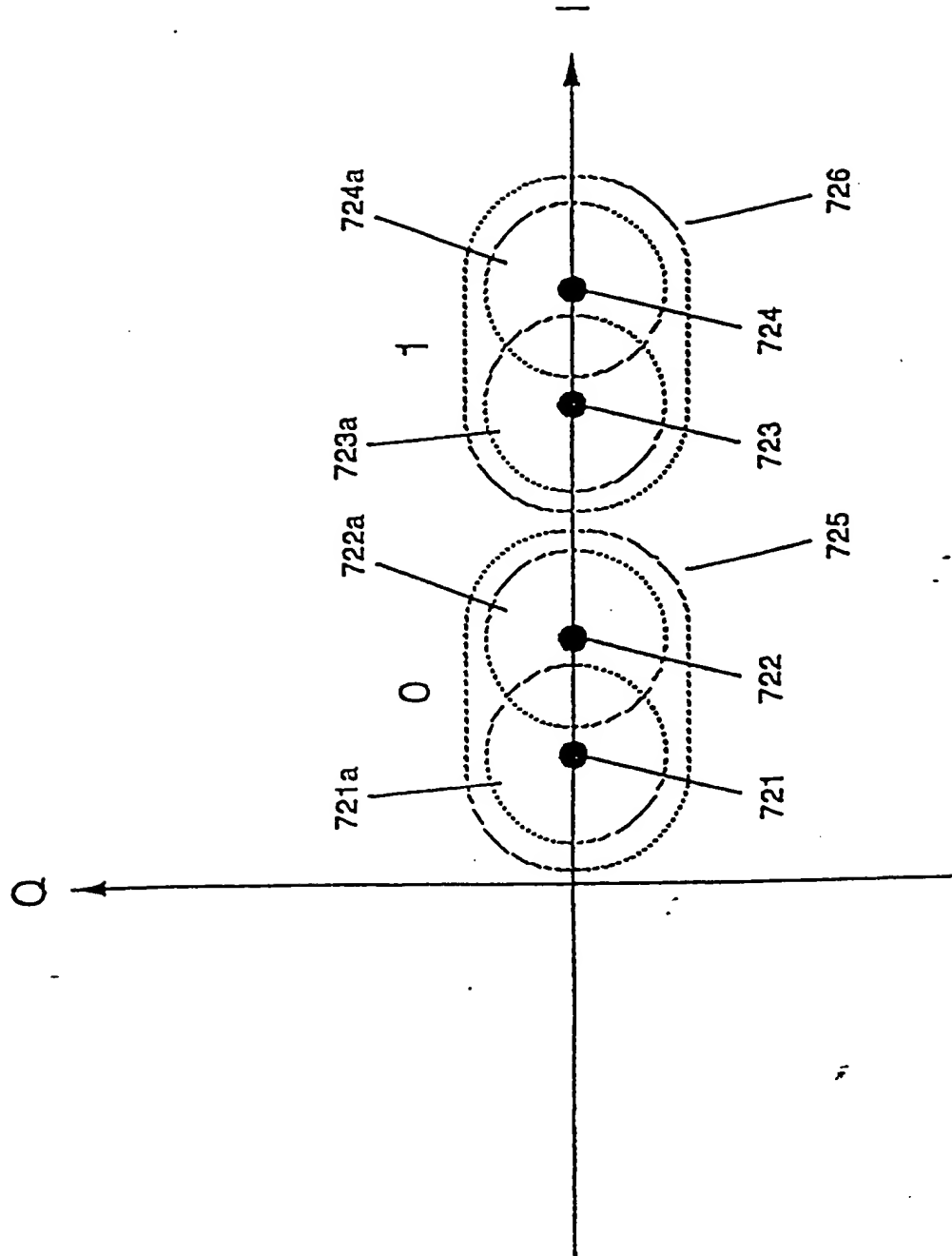


FIG. 61

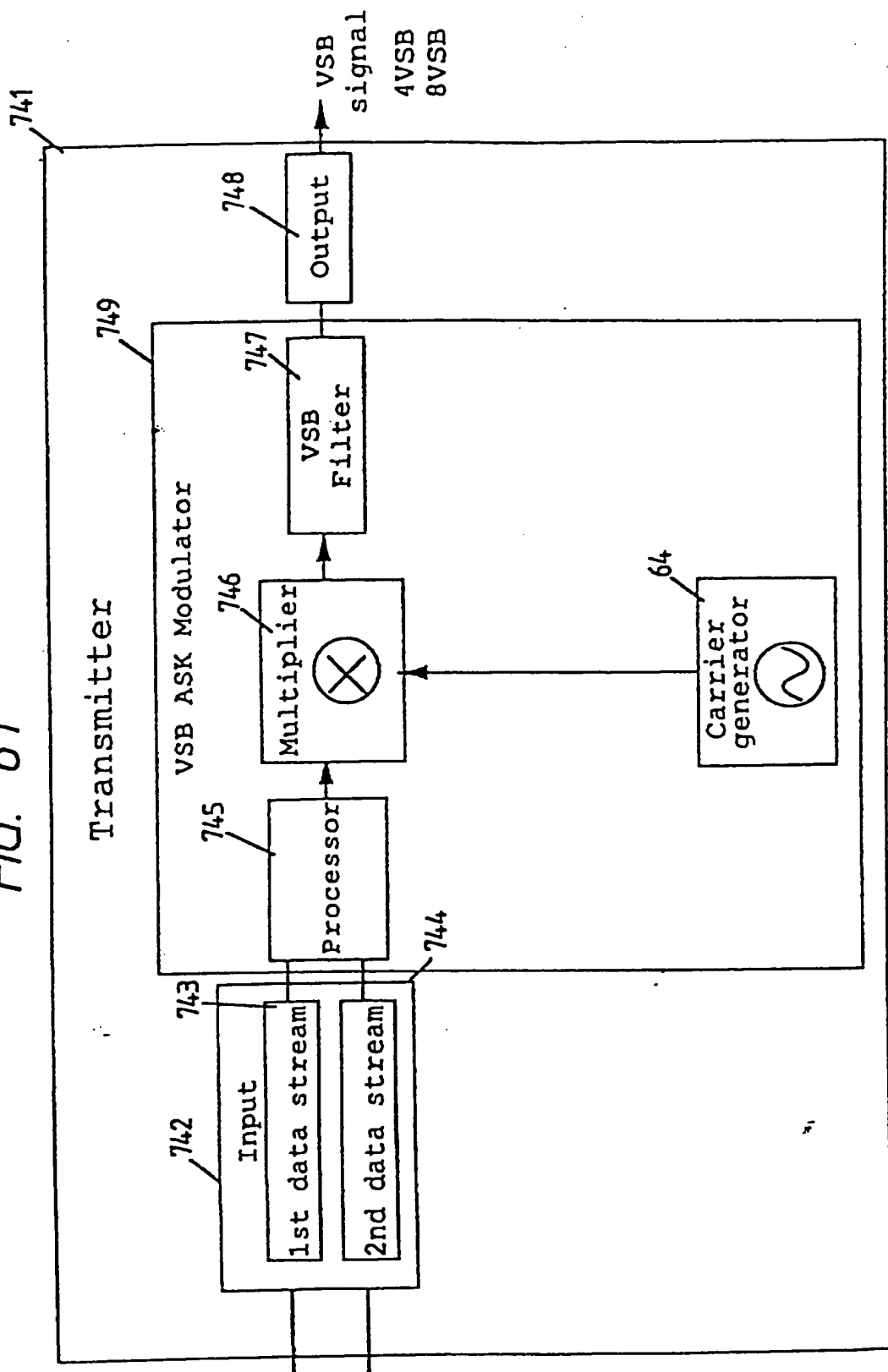


FIG. 62(a)

Spectrum of ASK Signal

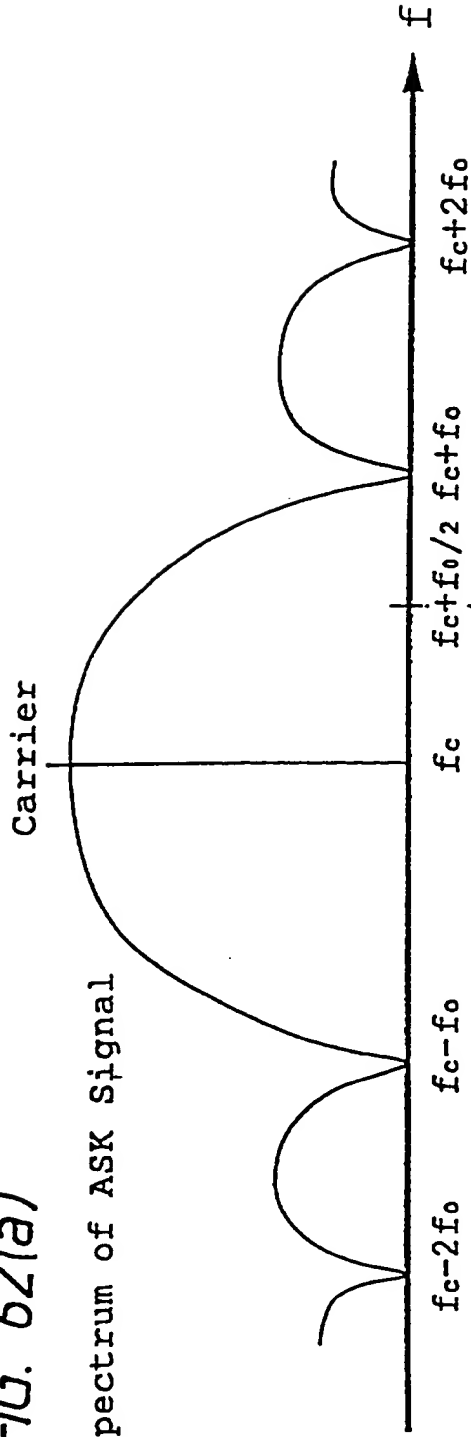


FIG. 62(b)

Characteristics of VSB Filter

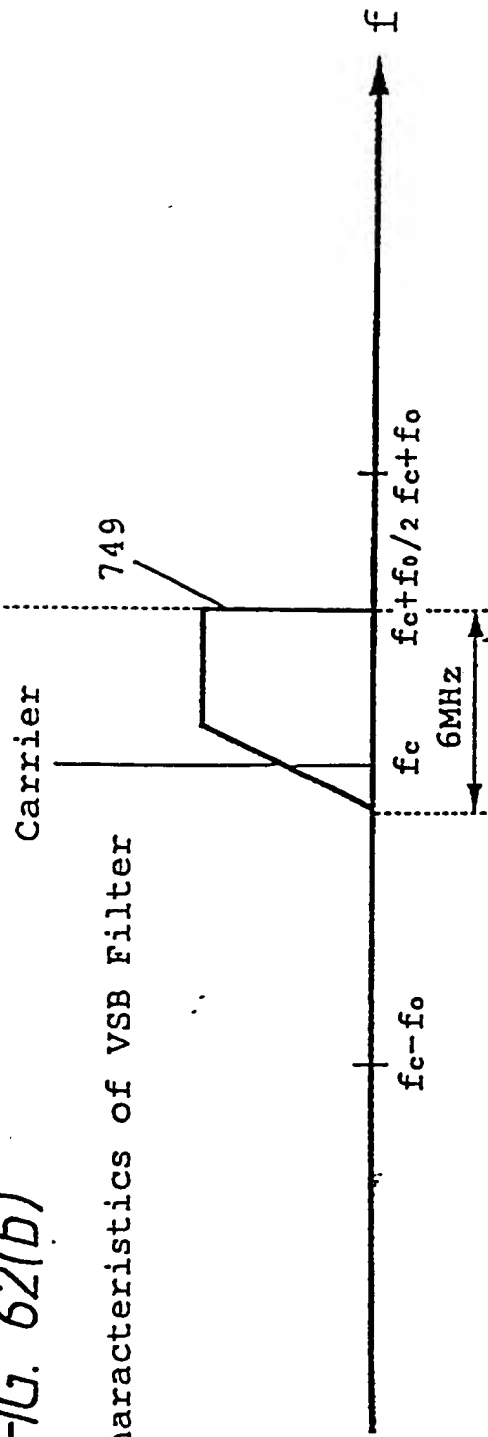


FIG. 63

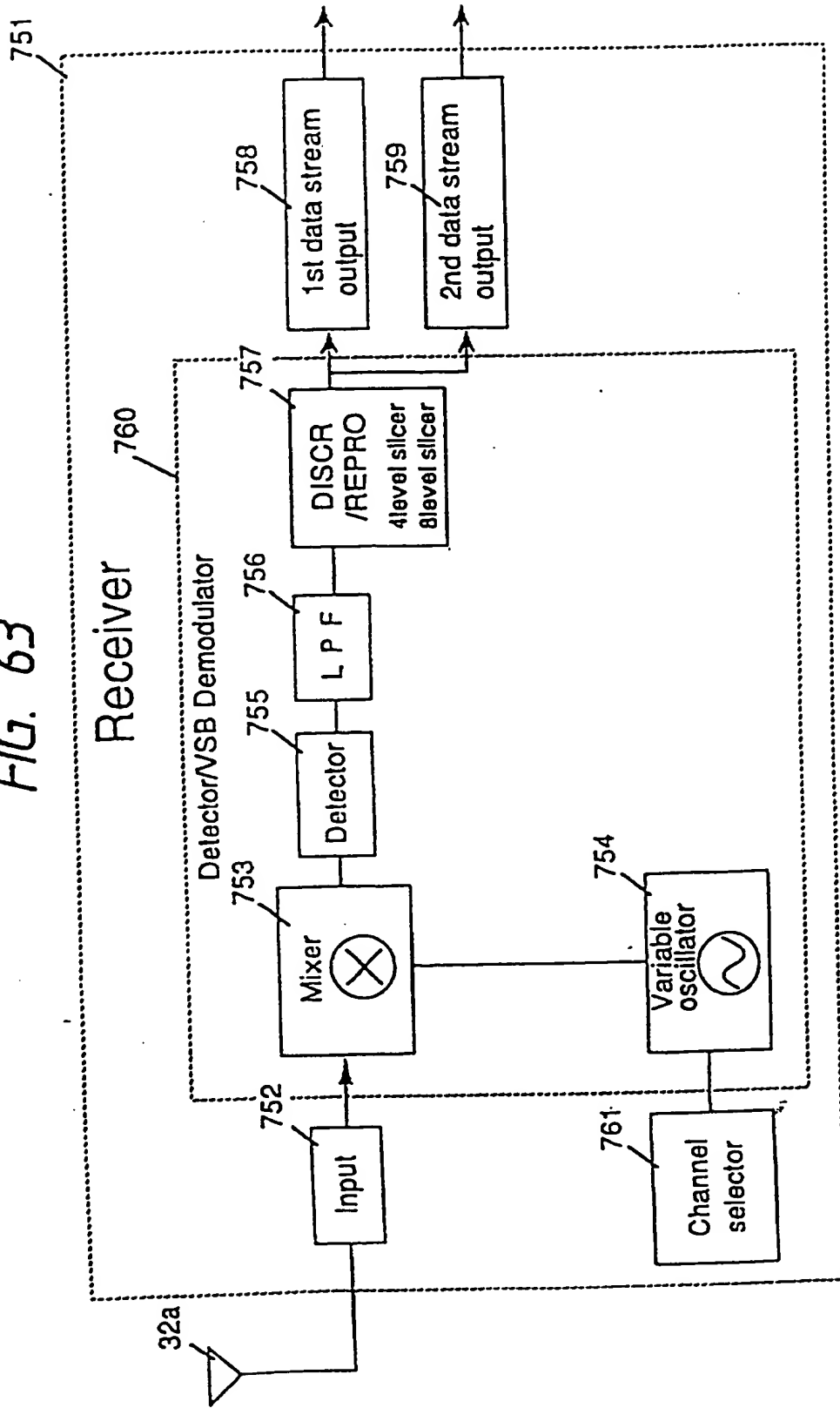


FIG. 64

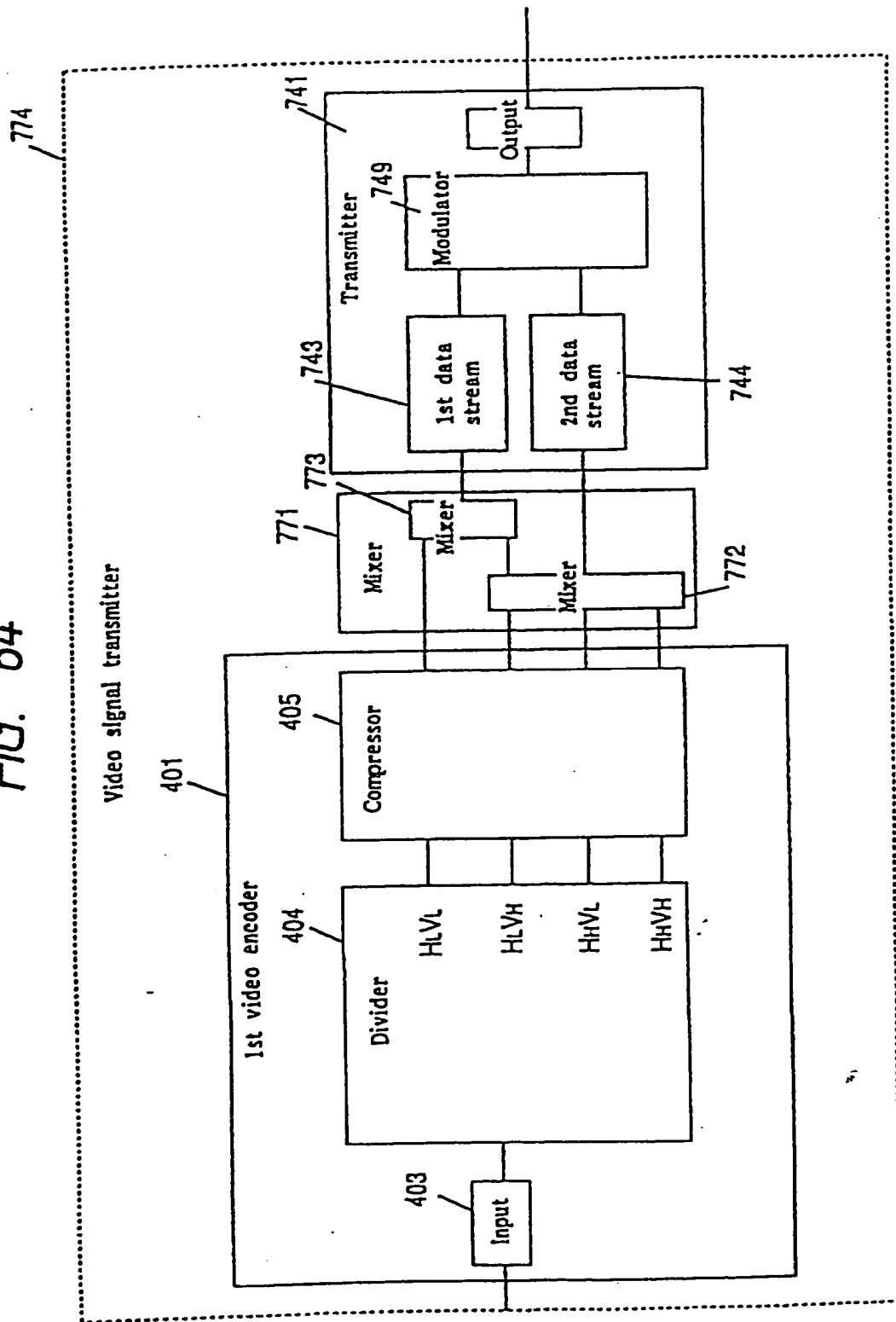




FIG. 65

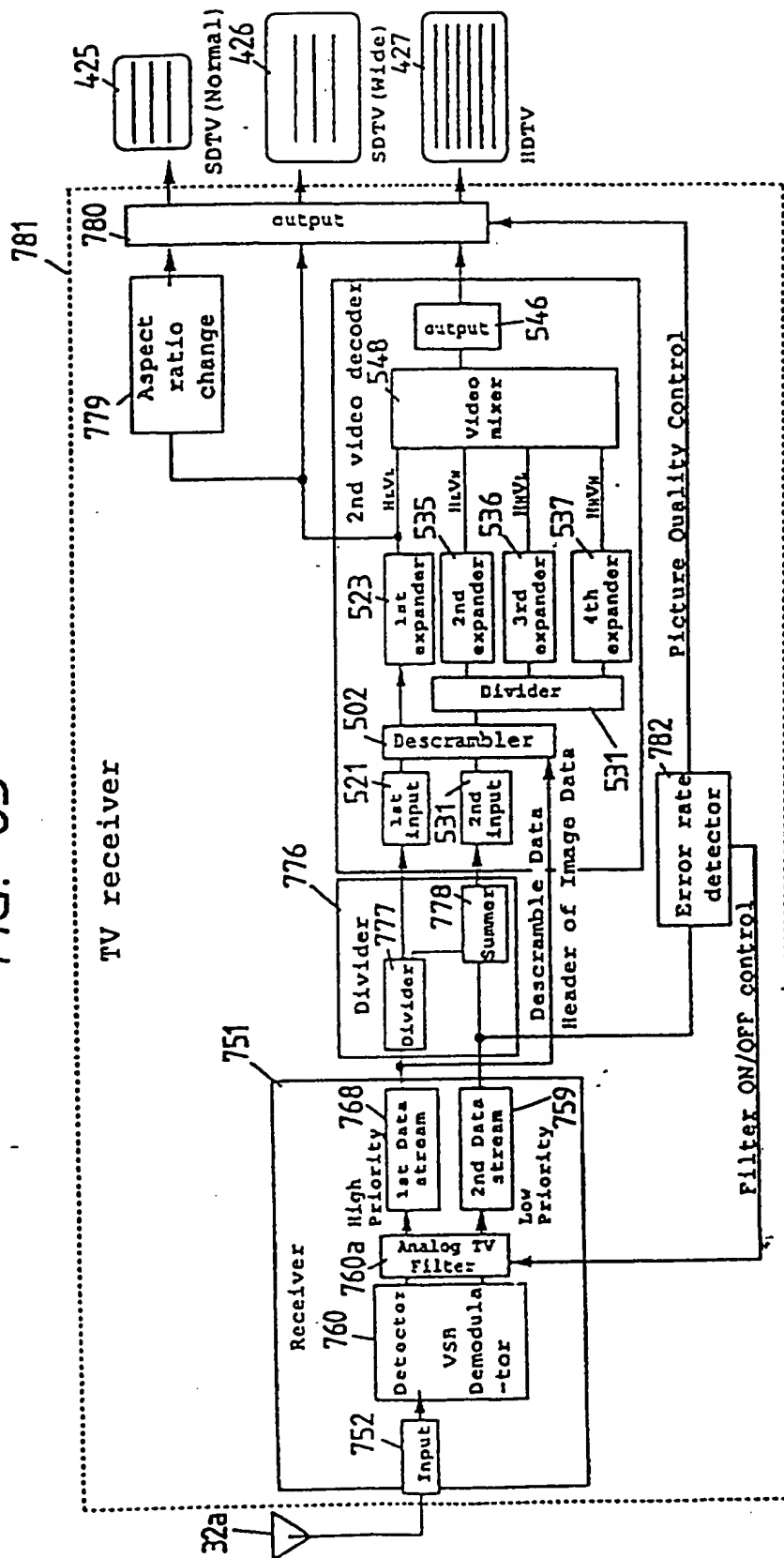


FIG. 66

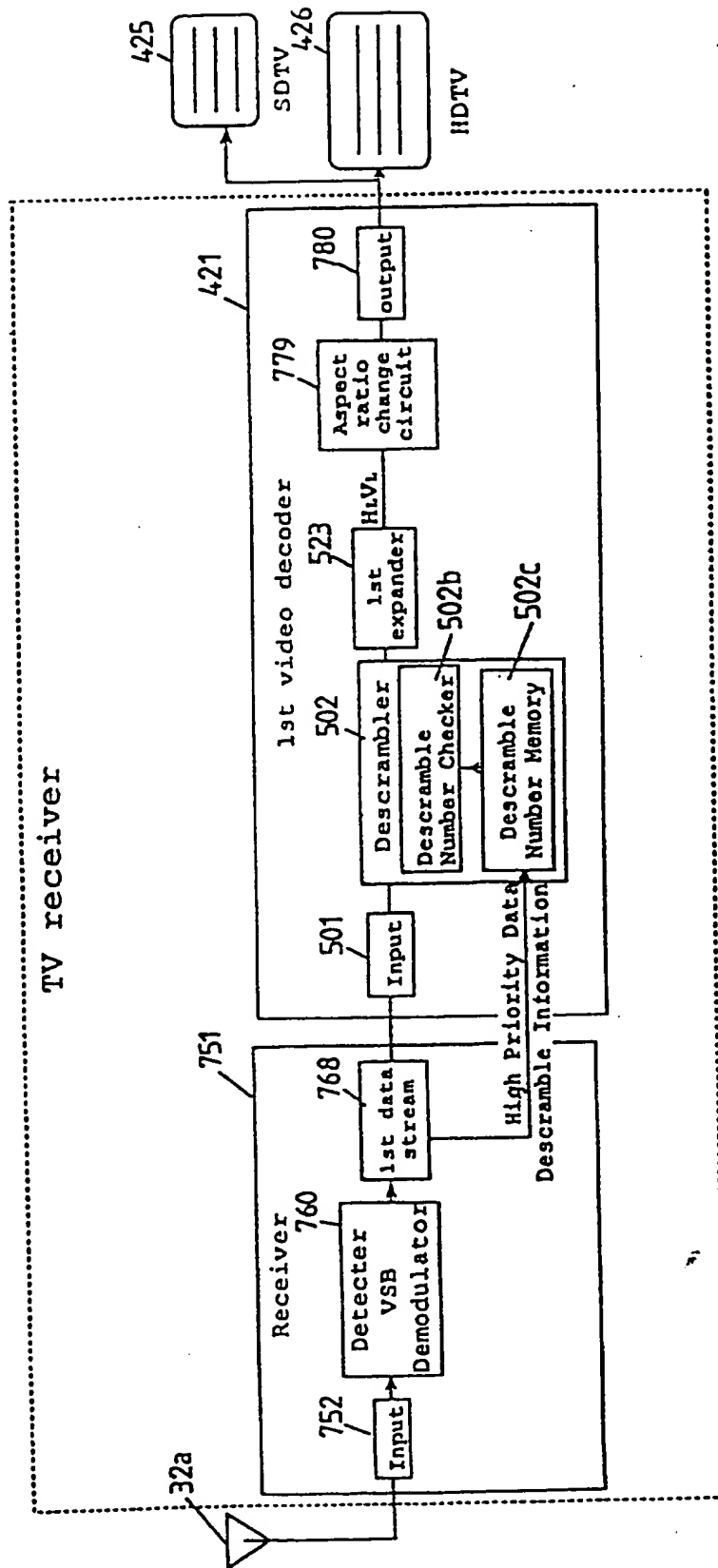


FIG. 67

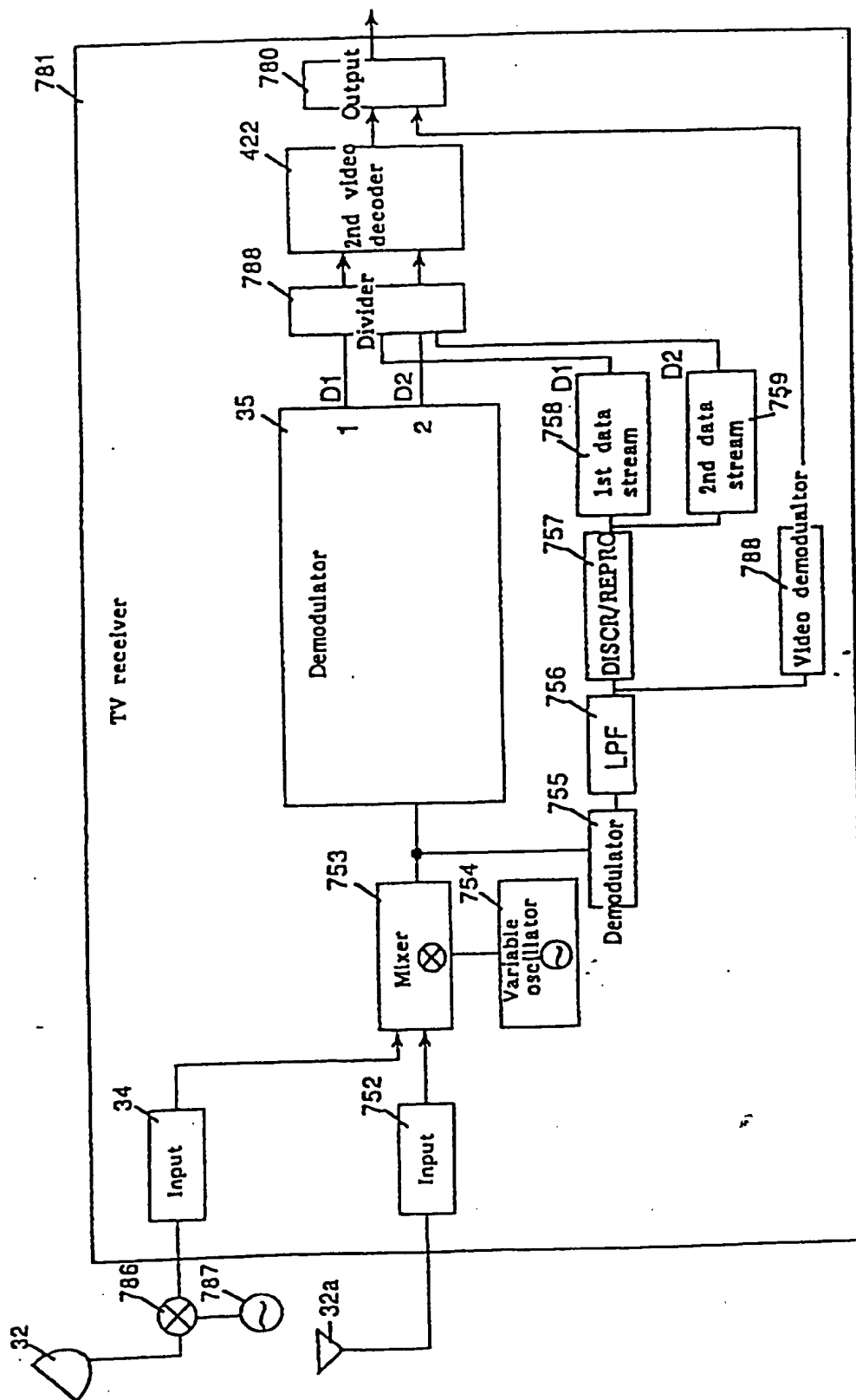


FIG. 68(a)

8-VSB

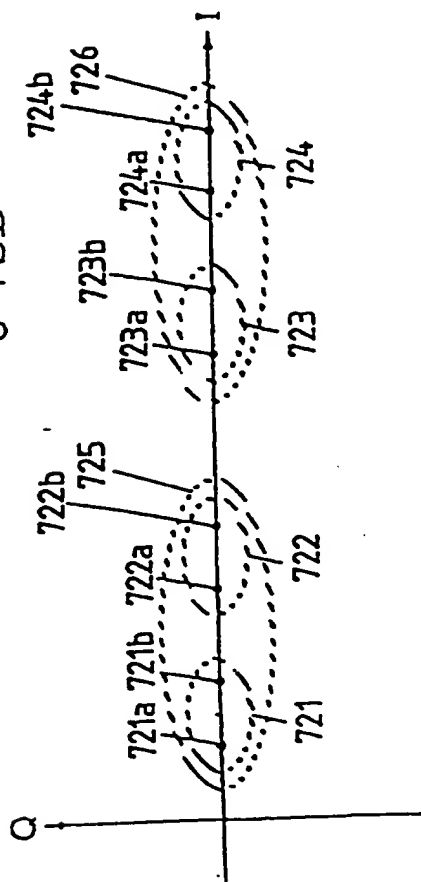


FIG. 68(b)

8-VSB ( $L=L_0$ )

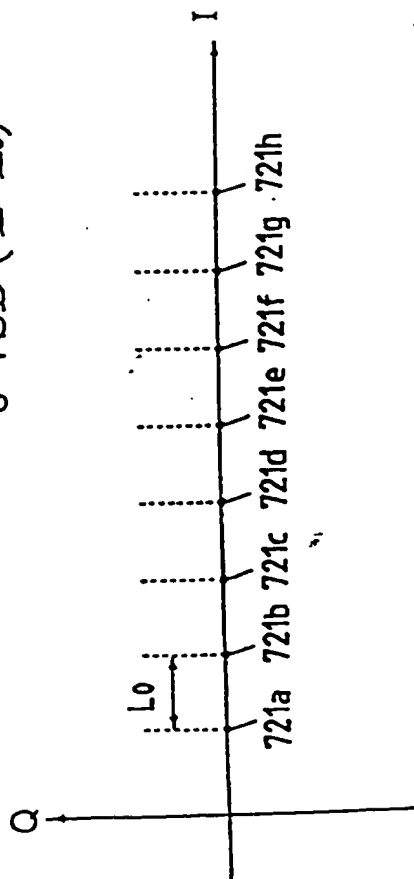


FIG. 68(c)

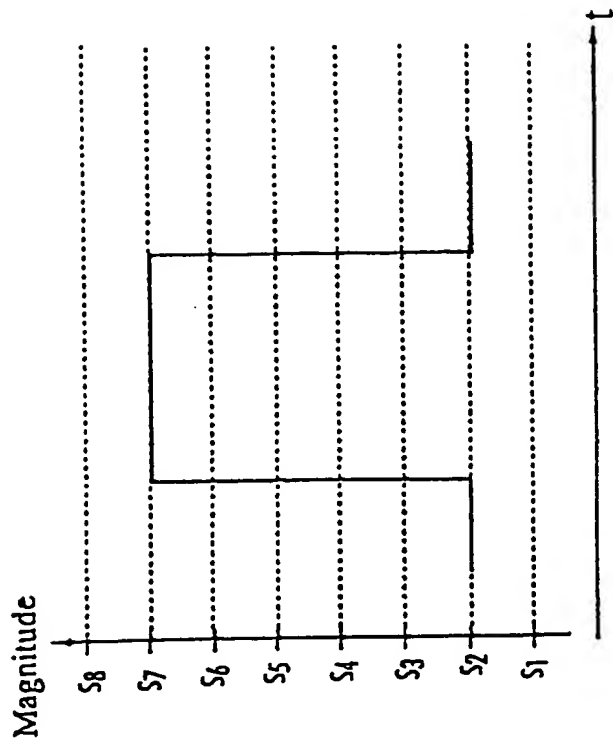


FIG. 69

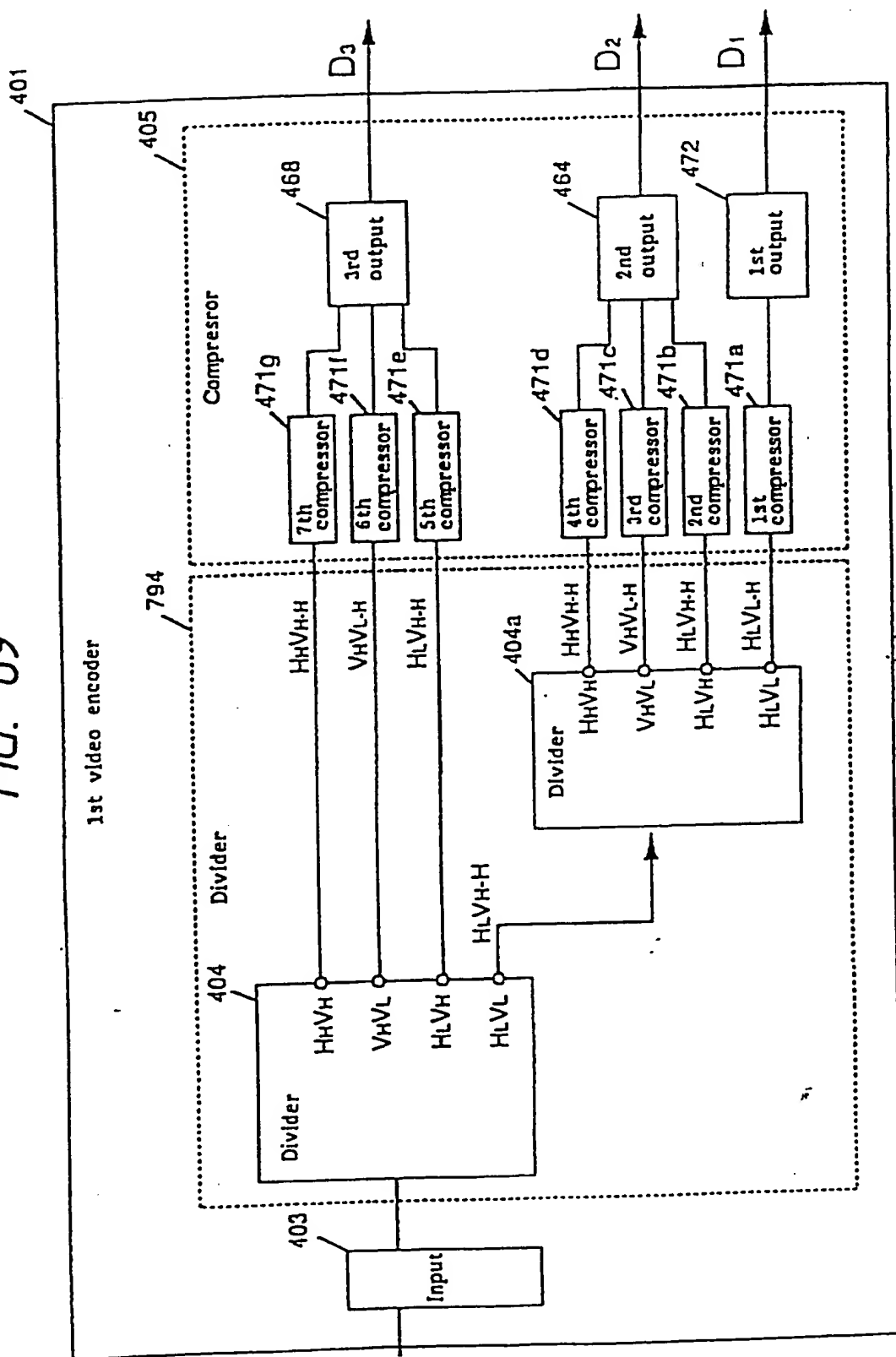


FIG. 70

794

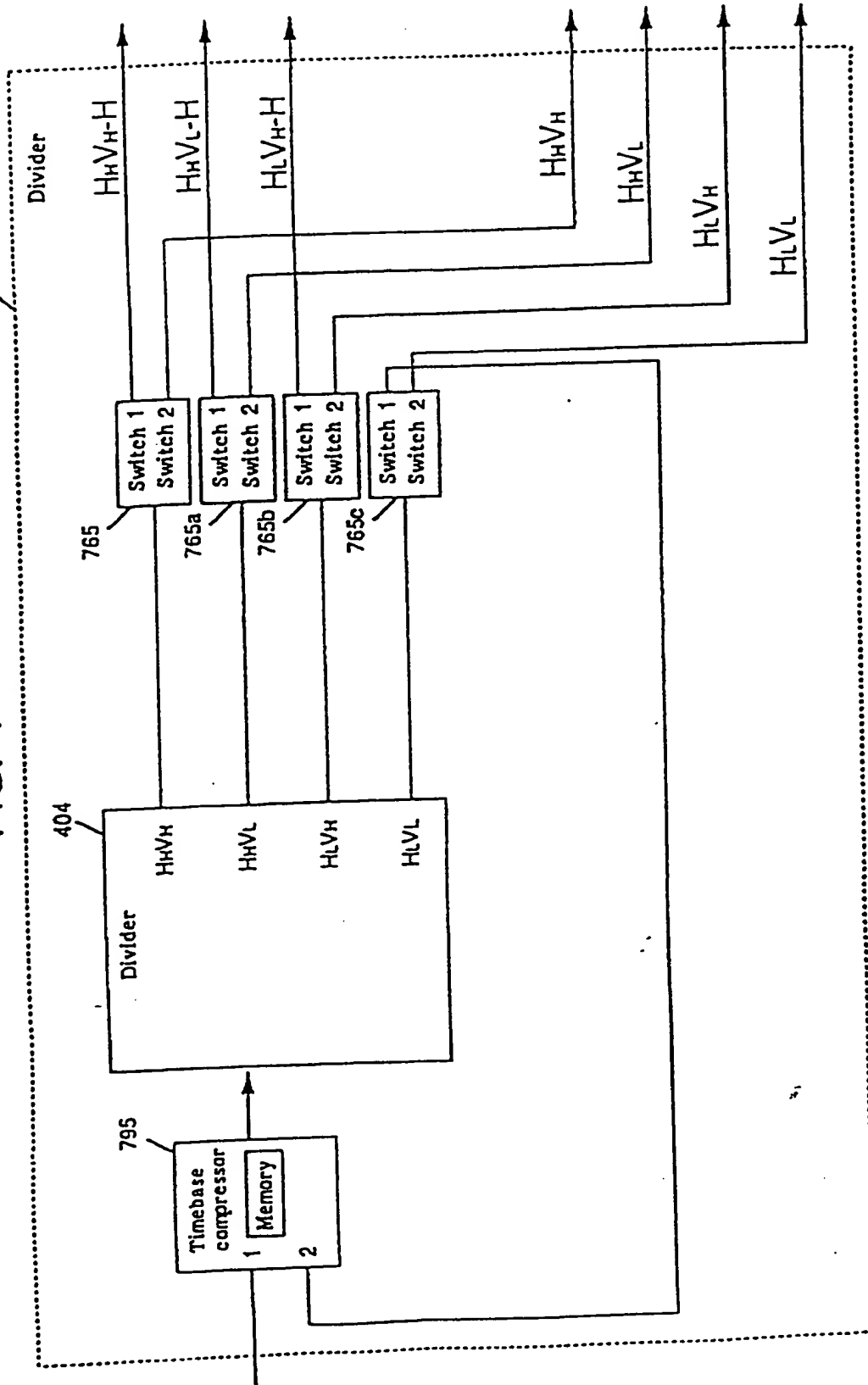


FIG. 71

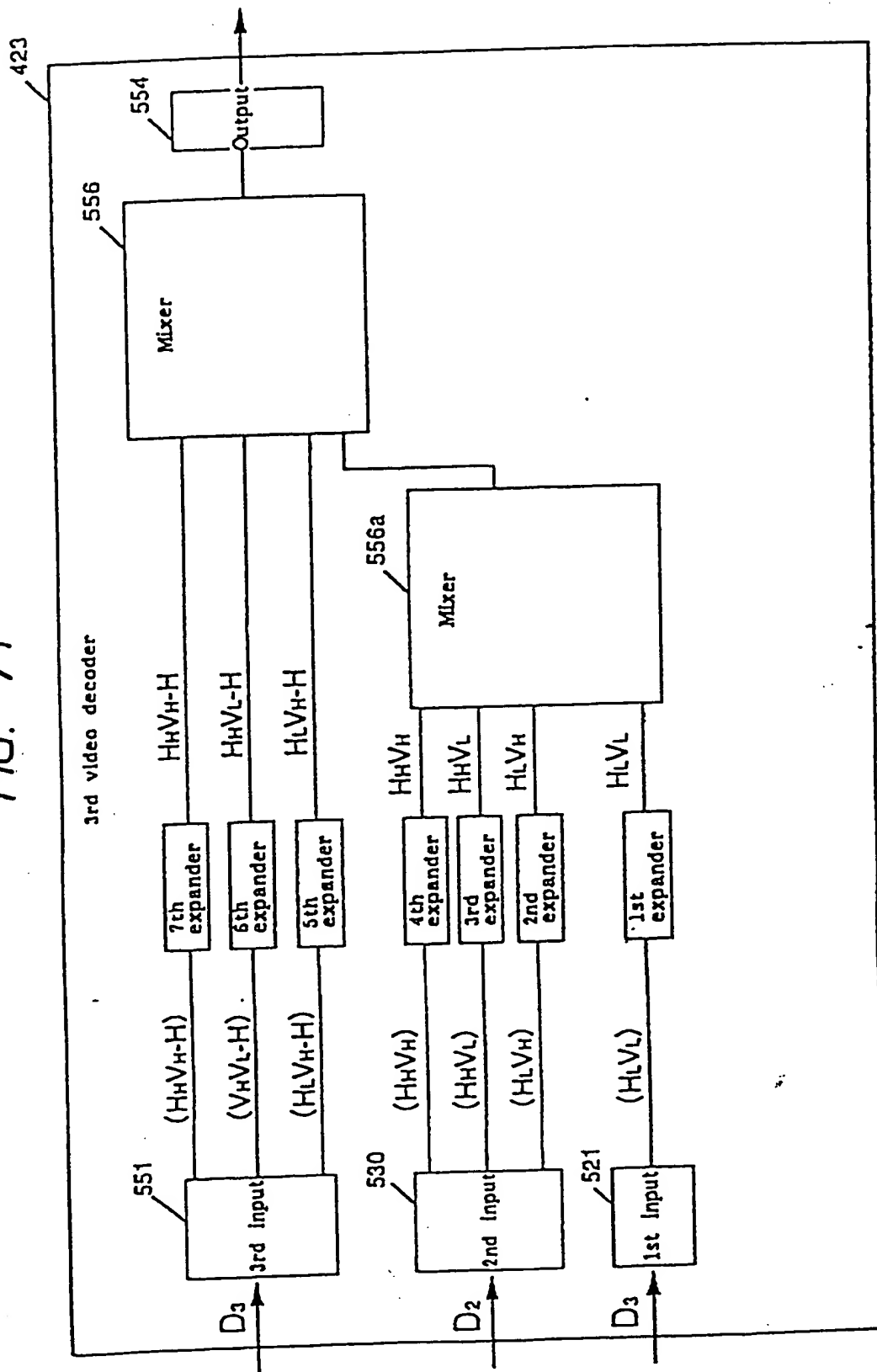


FIG. 72

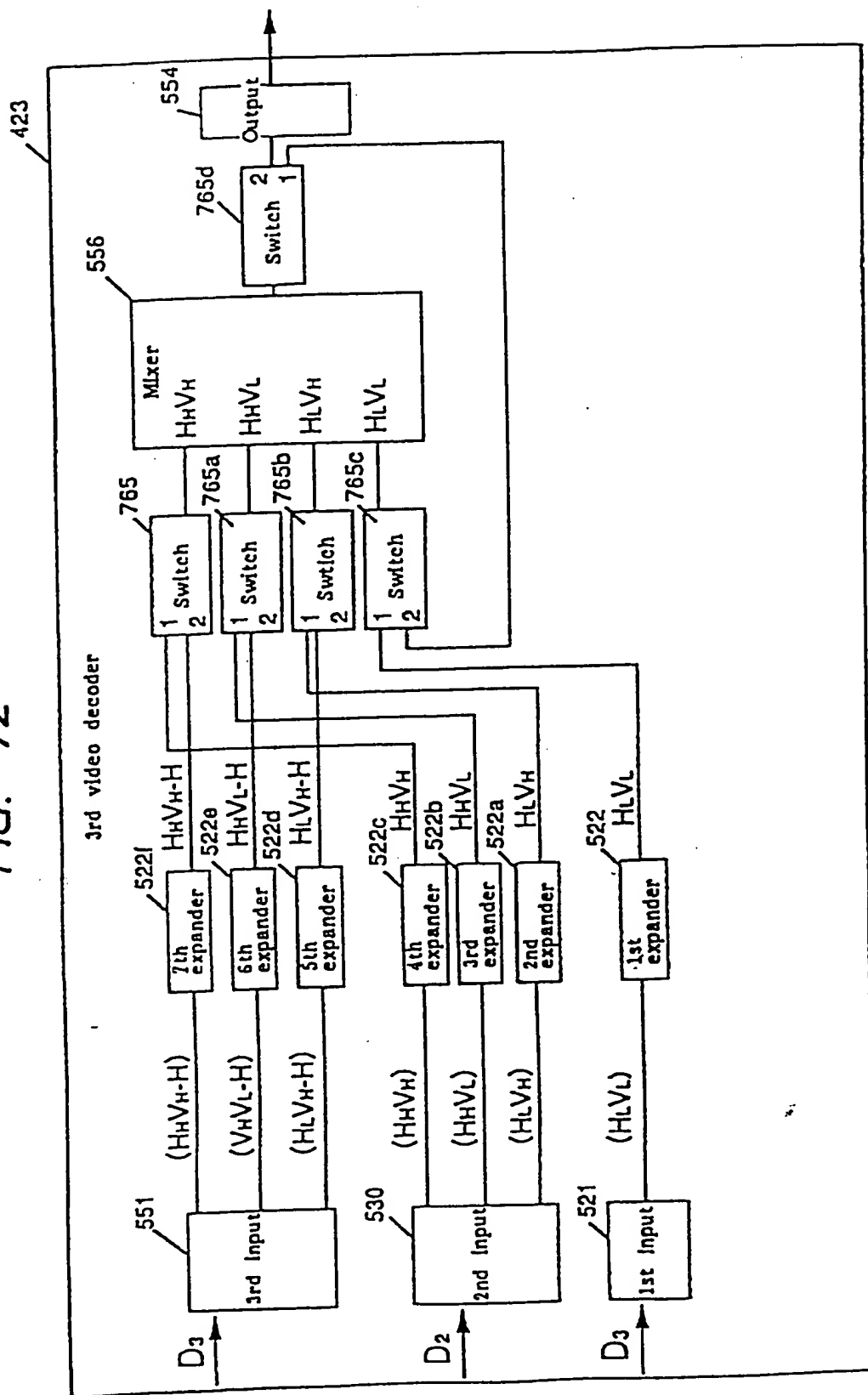




FIG. 73

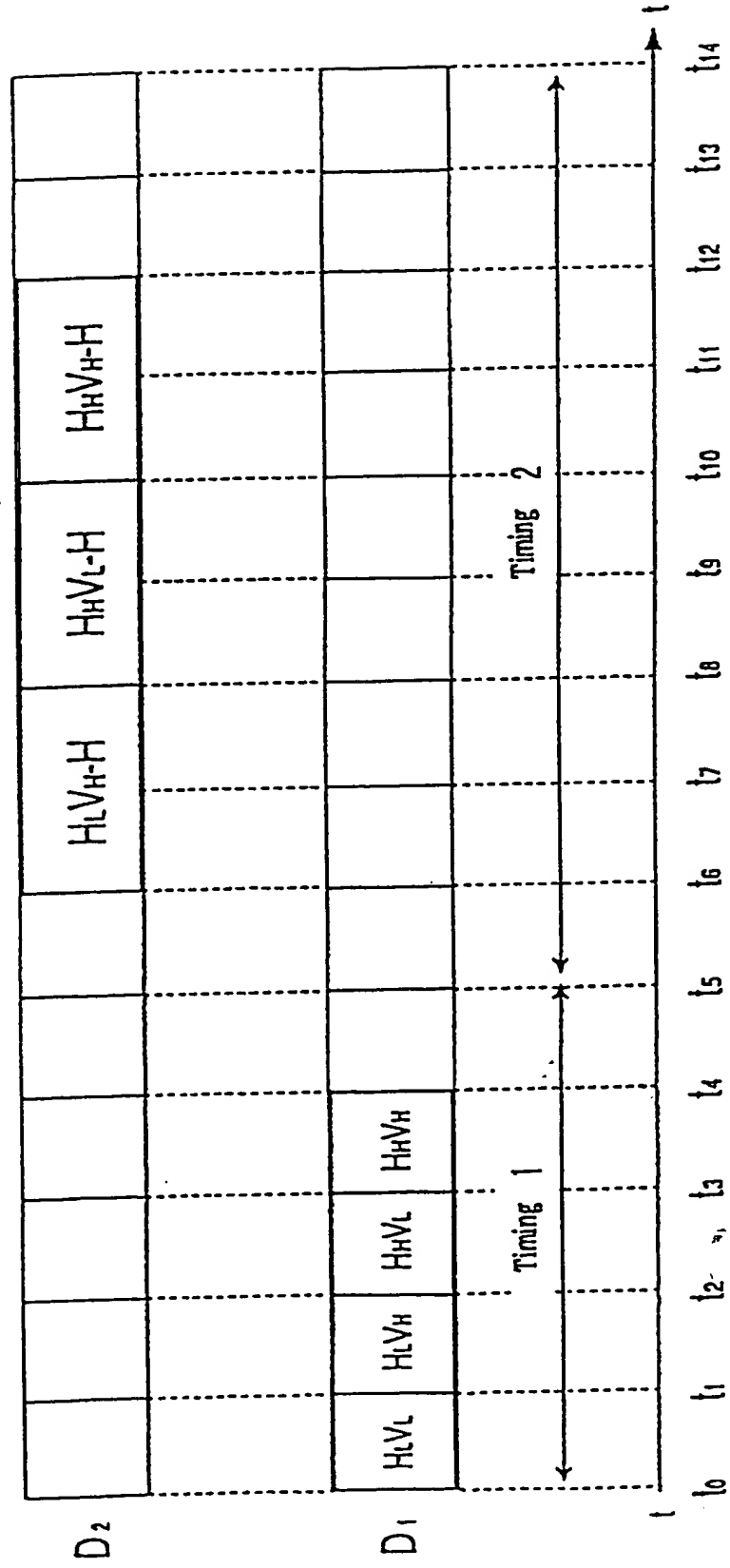


FIG. 74(a)

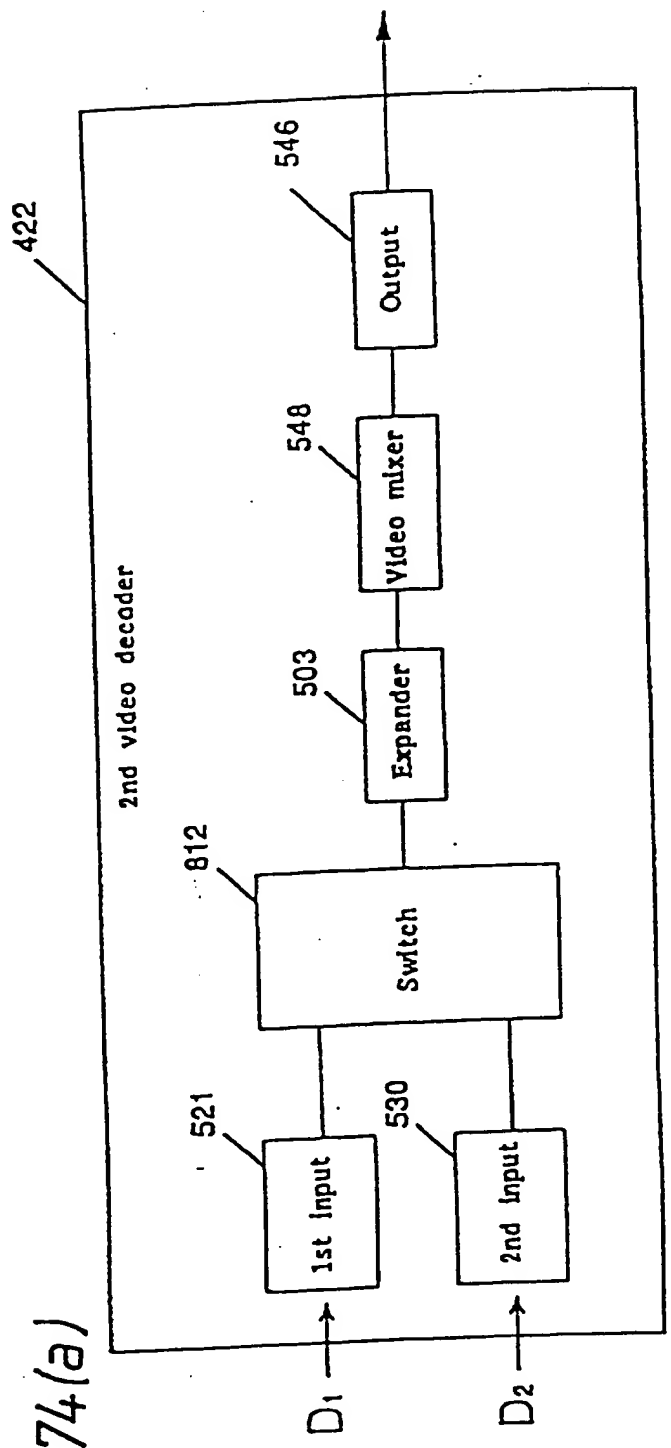


FIG. 74(b)

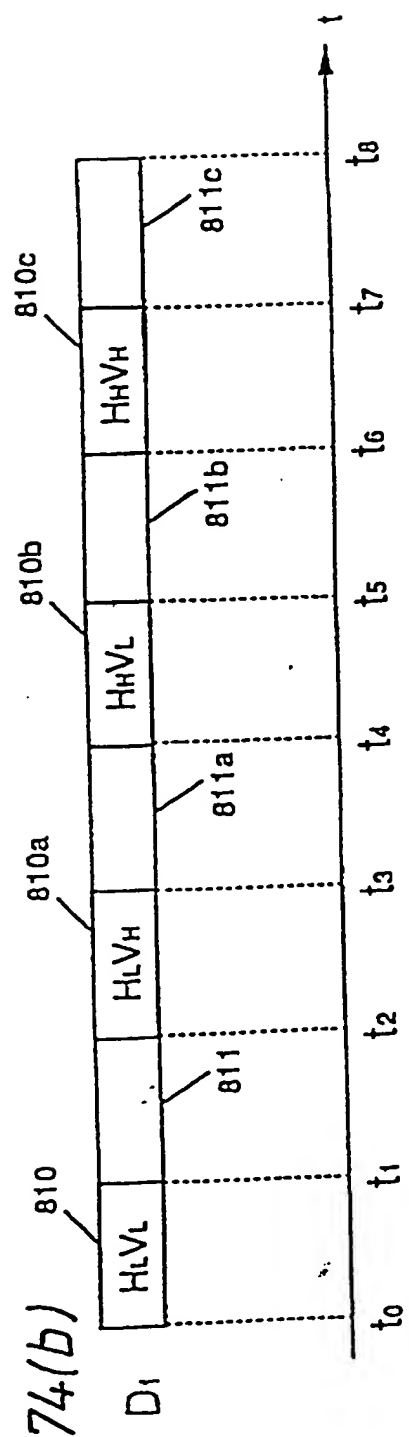


FIG. 75

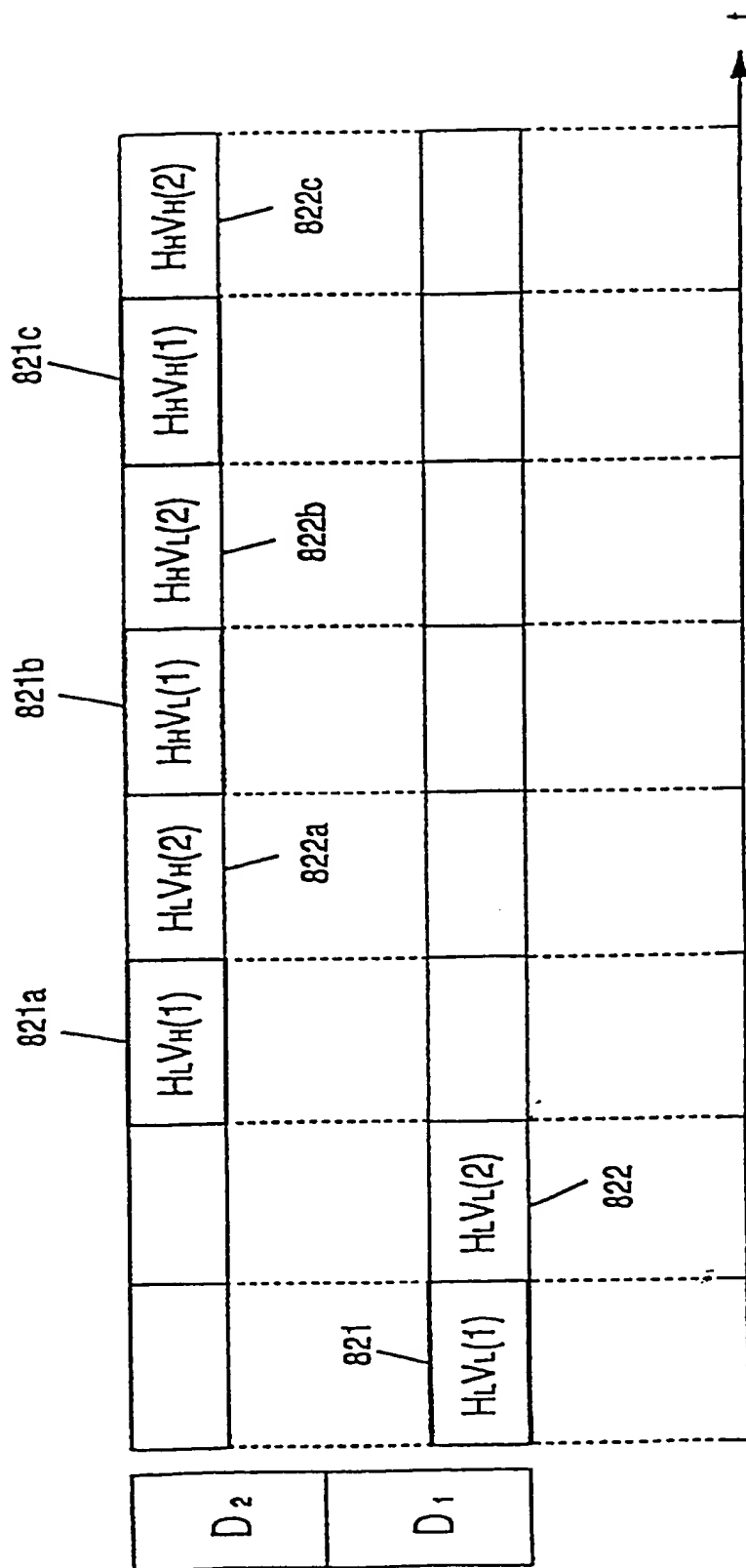


FIG. 76

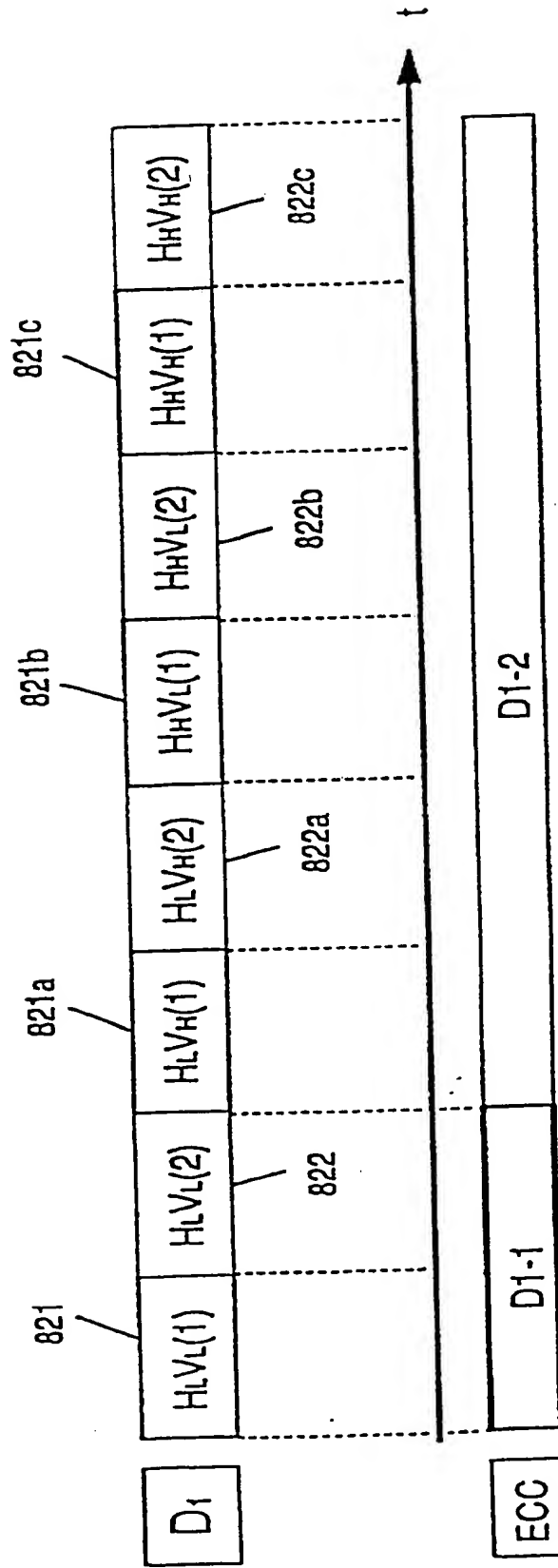


FIG. 77

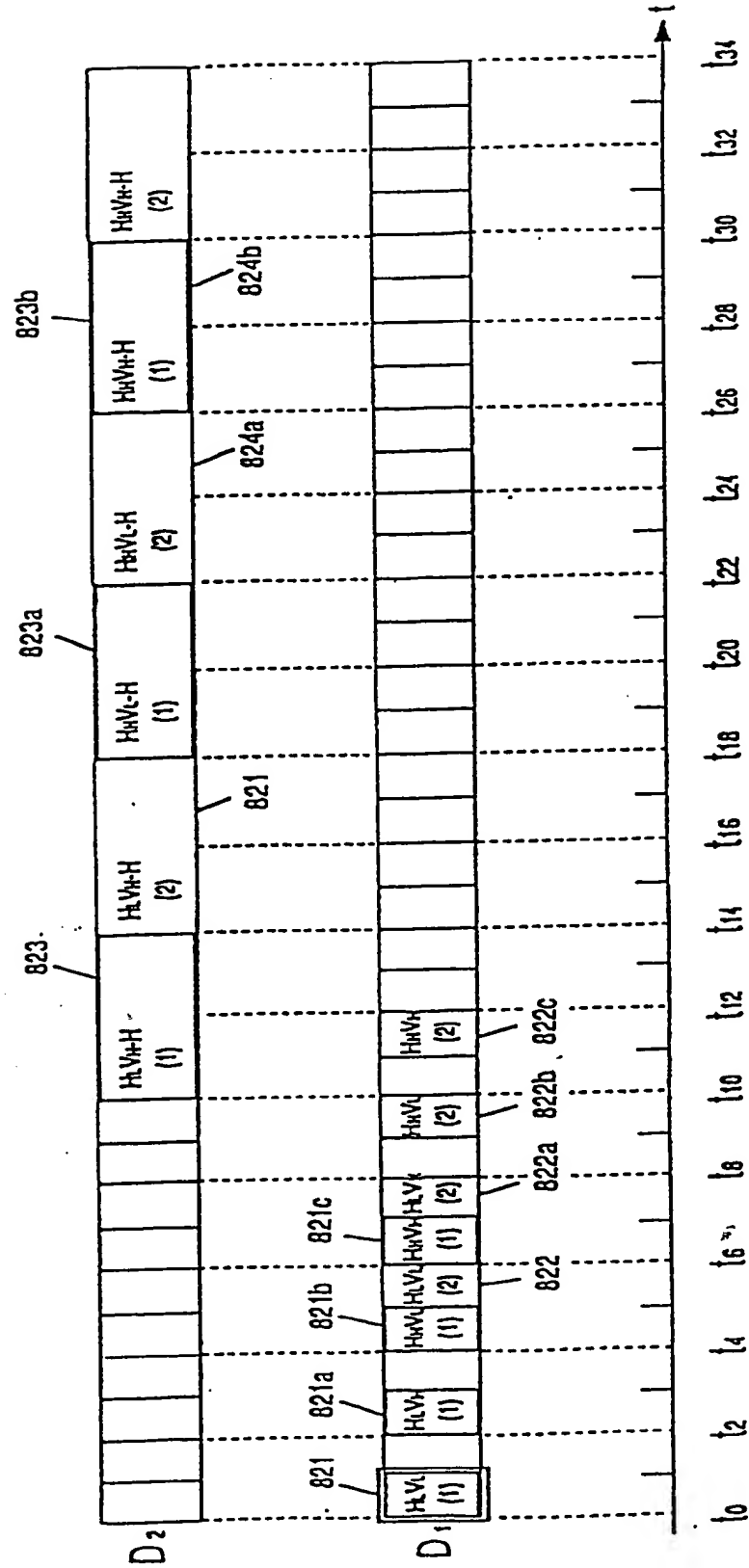


FIG. 78

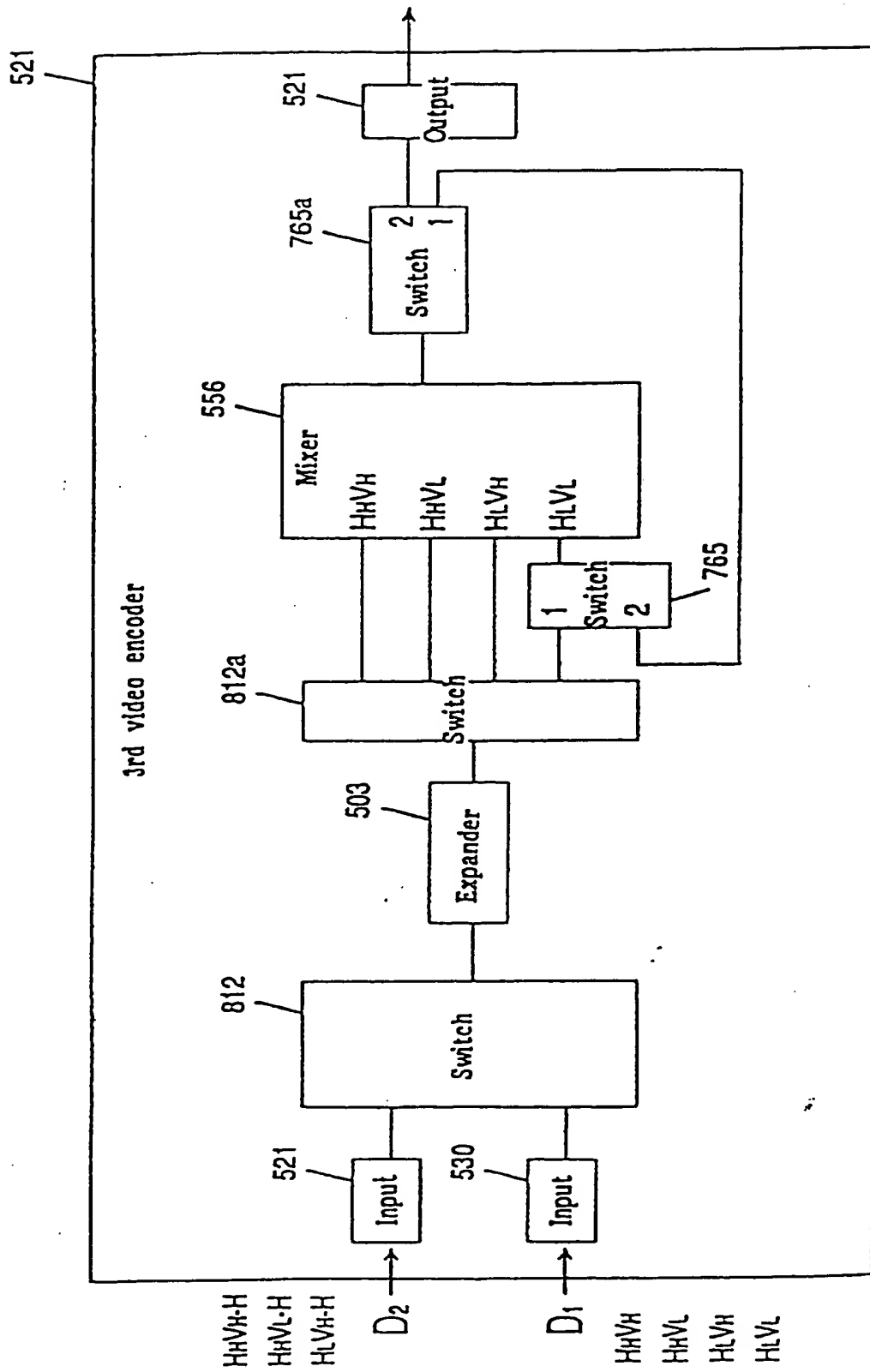


FIG. 79

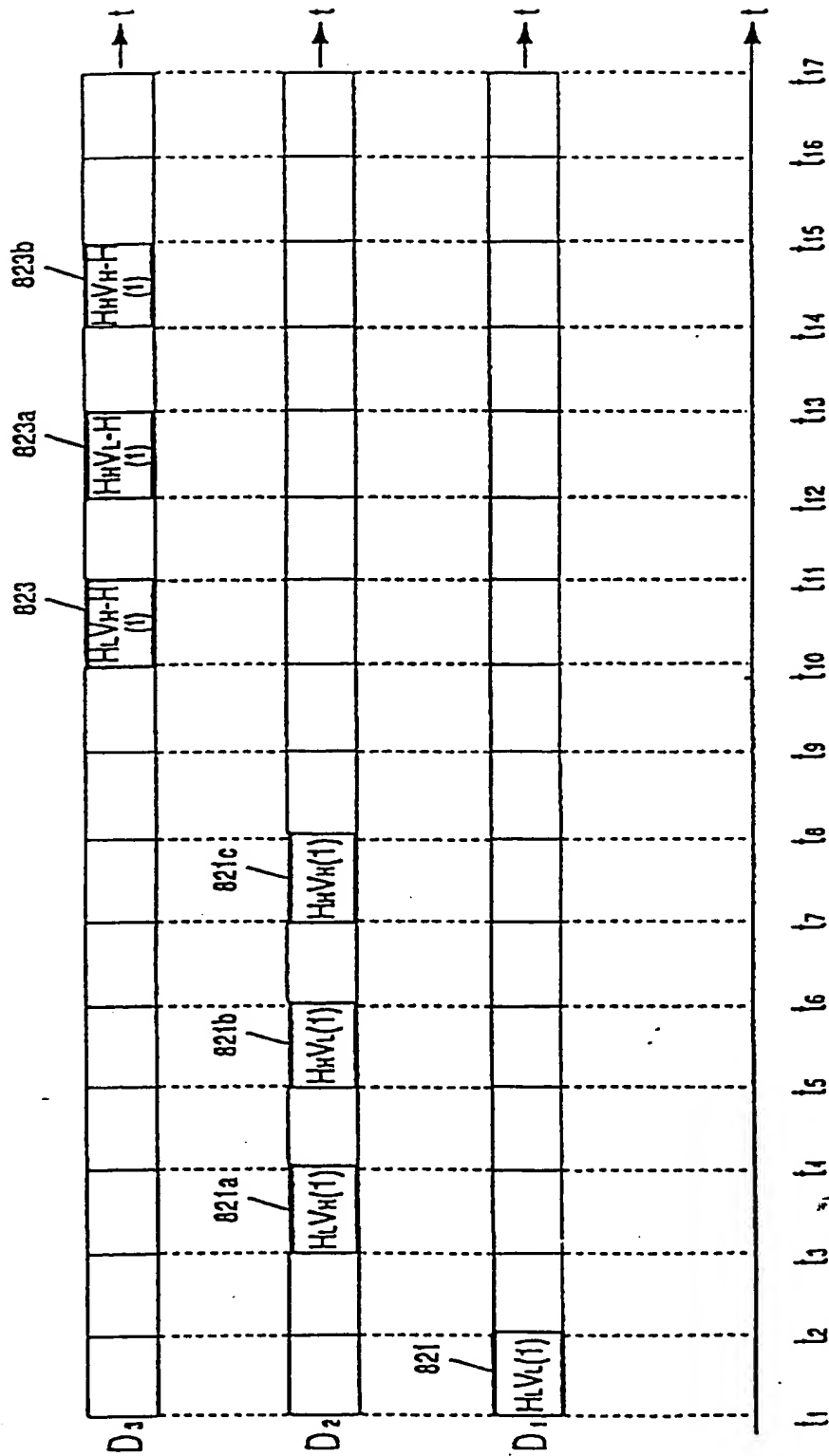


FIG. 80

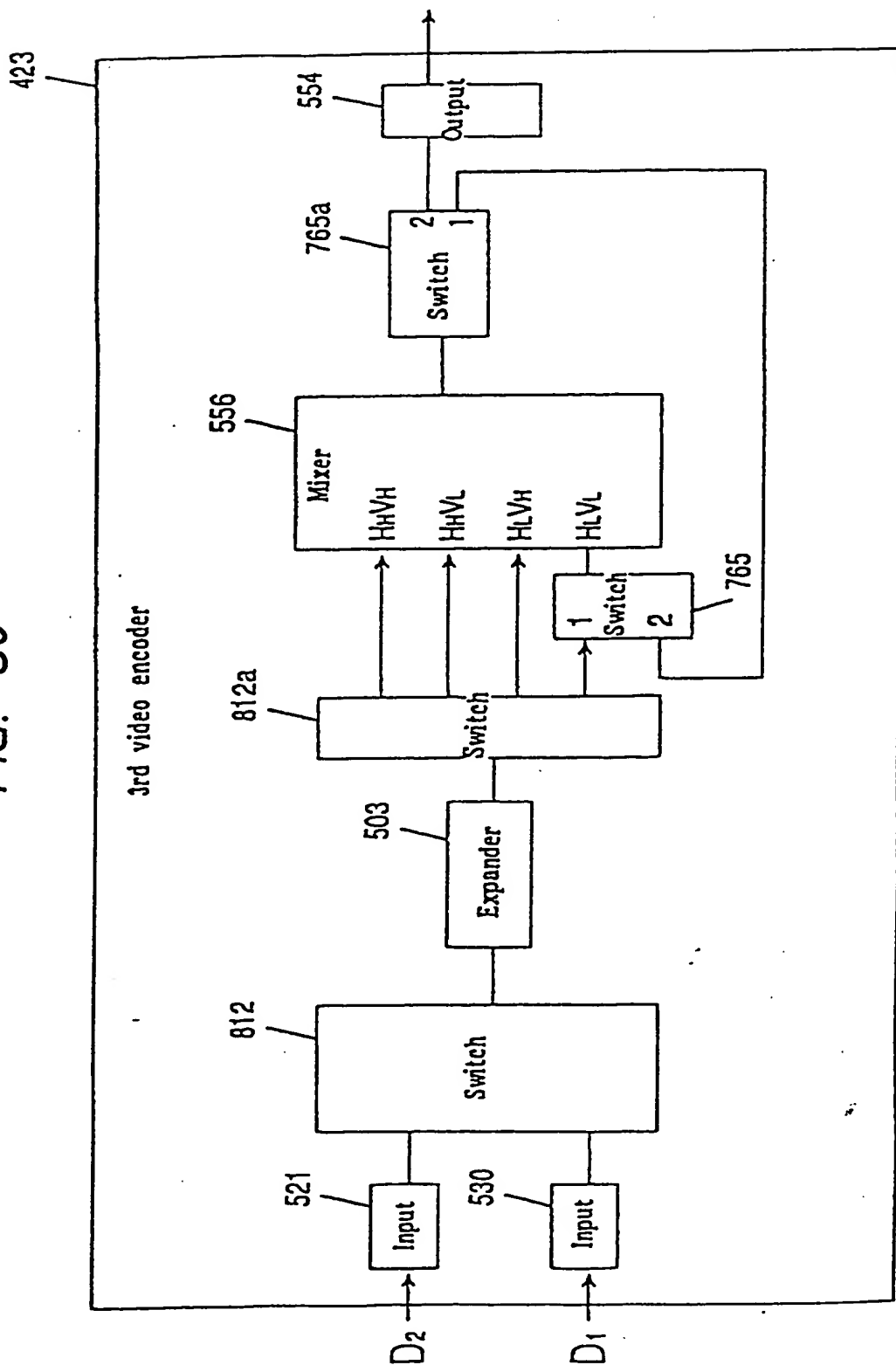




FIG. 81

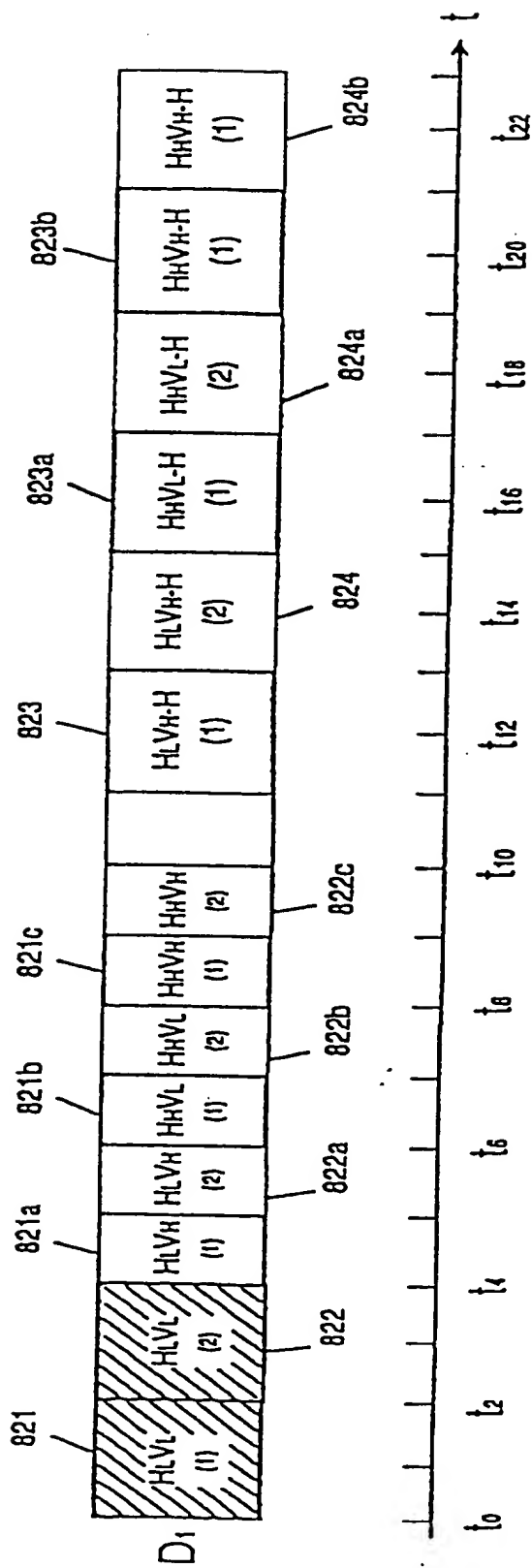


FIG. 82

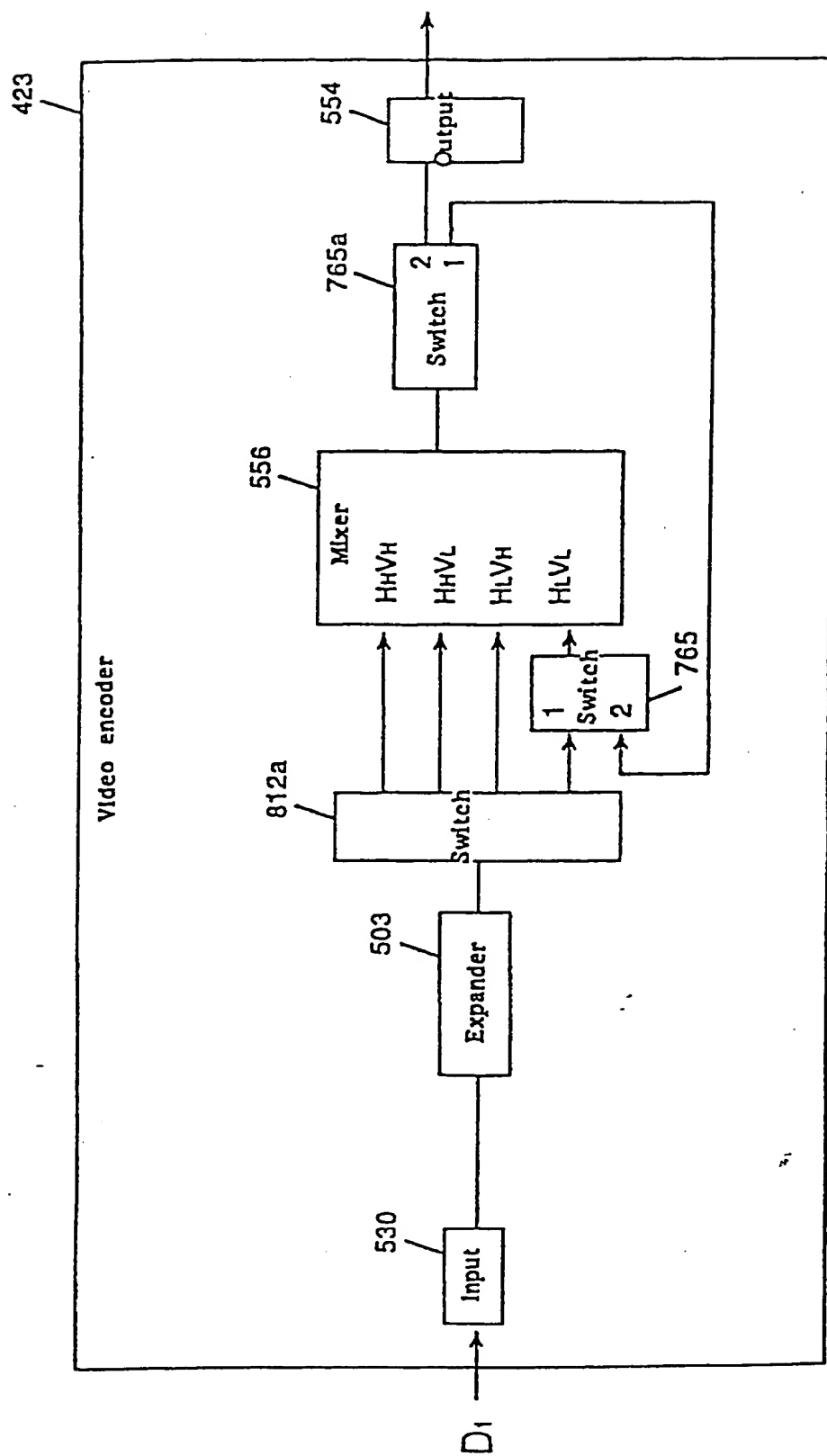


FIG. 83

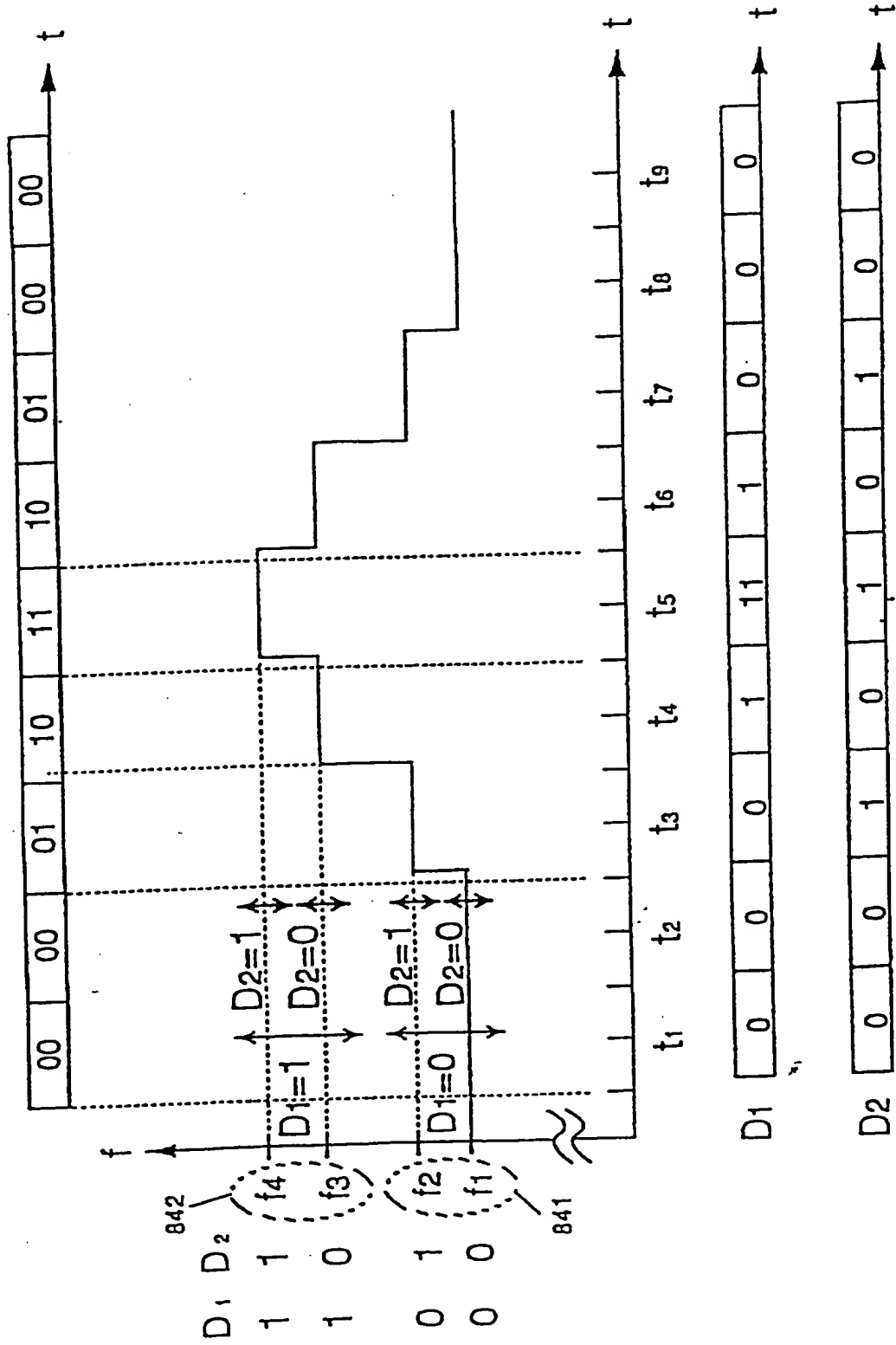


FIG. 84

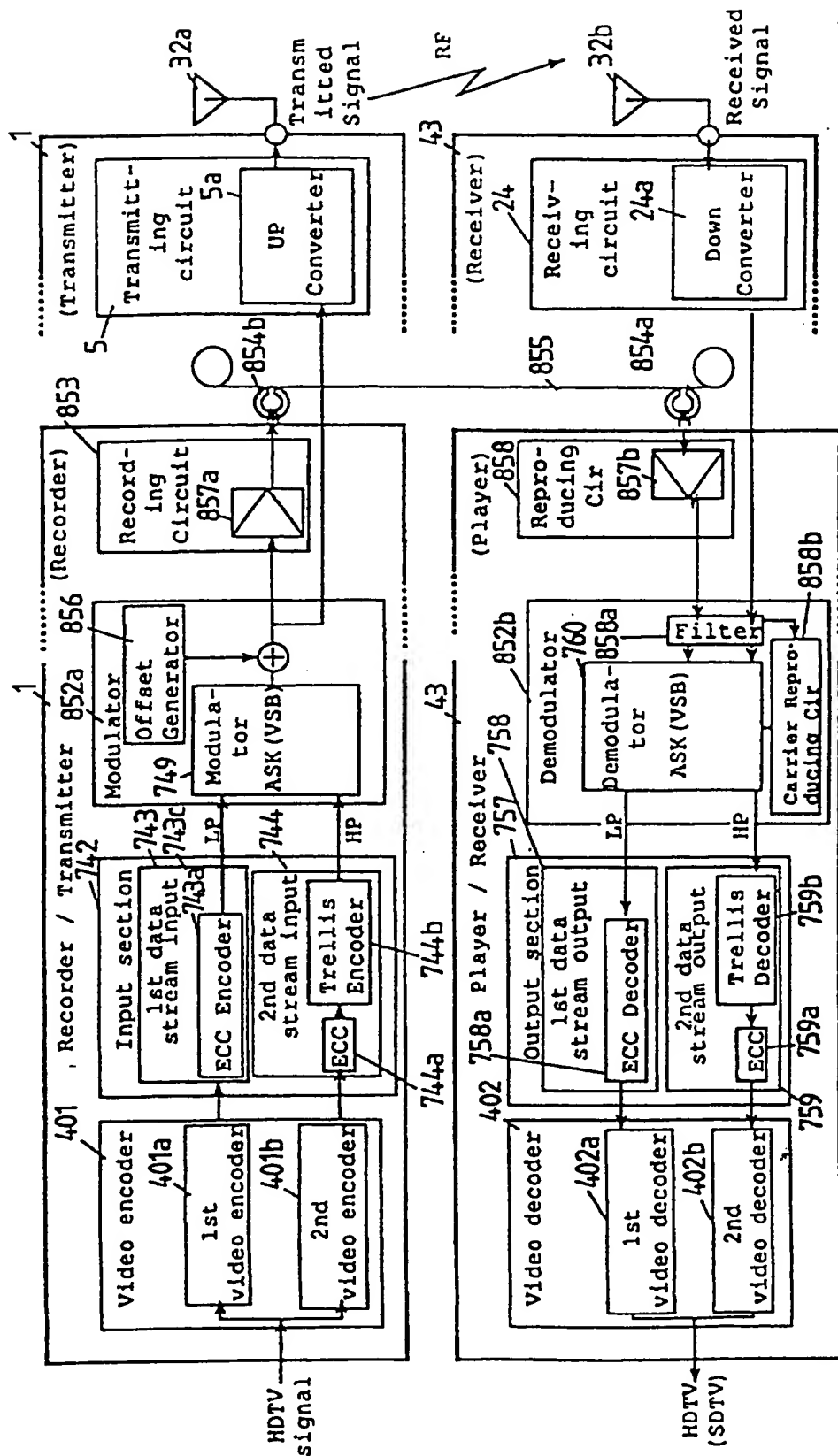


FIG. 85

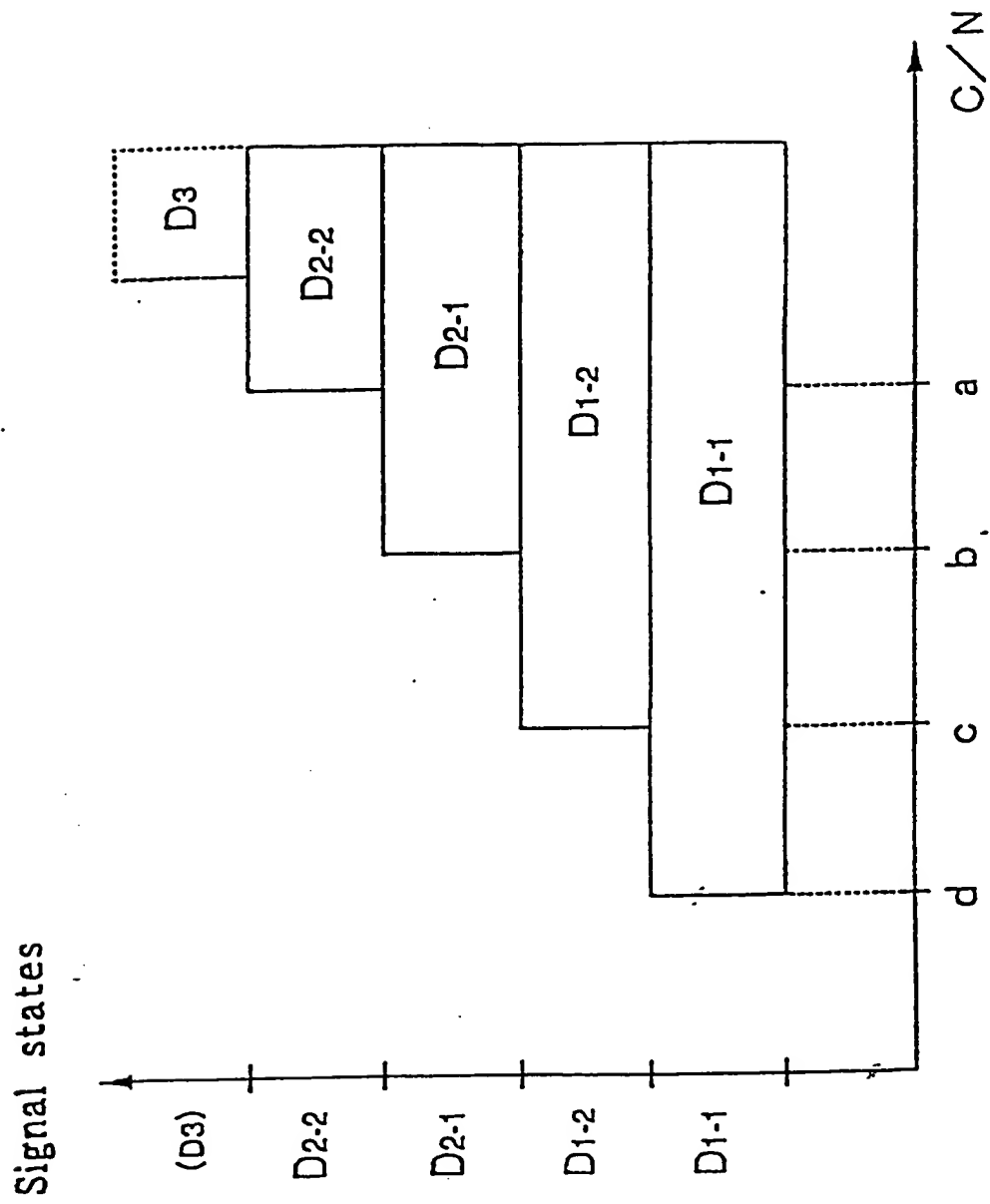


FIG. 86

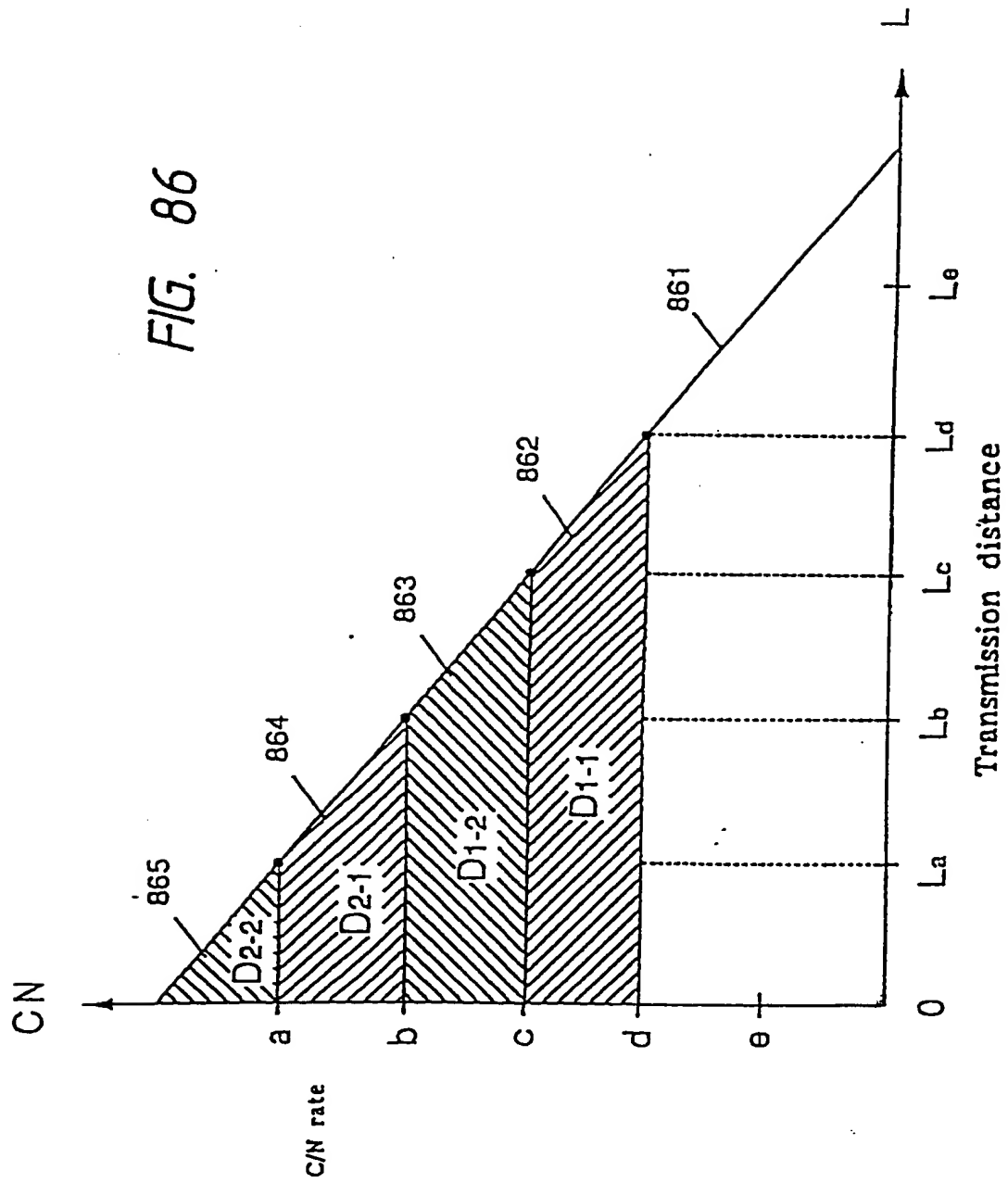


FIG. 87

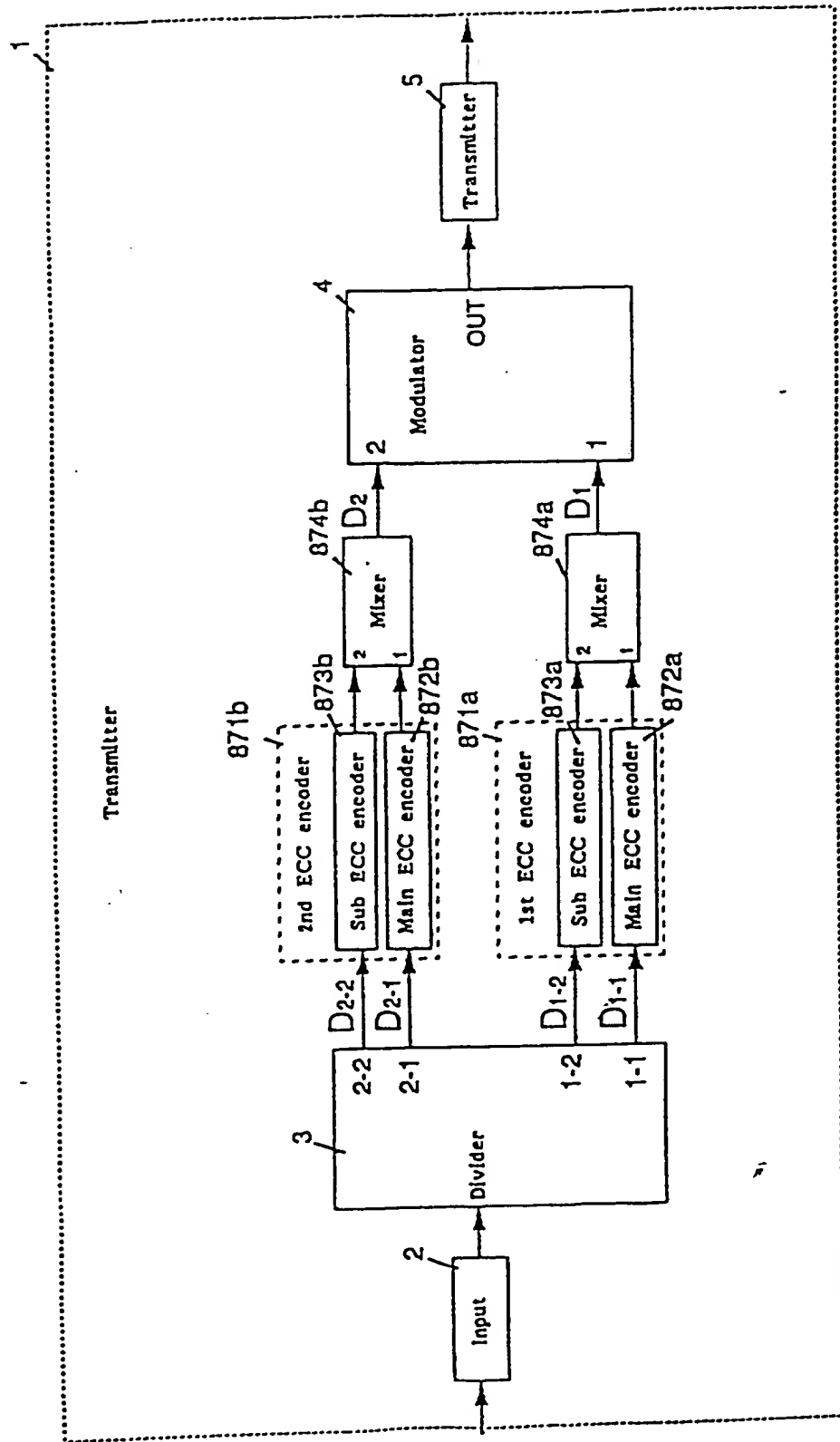
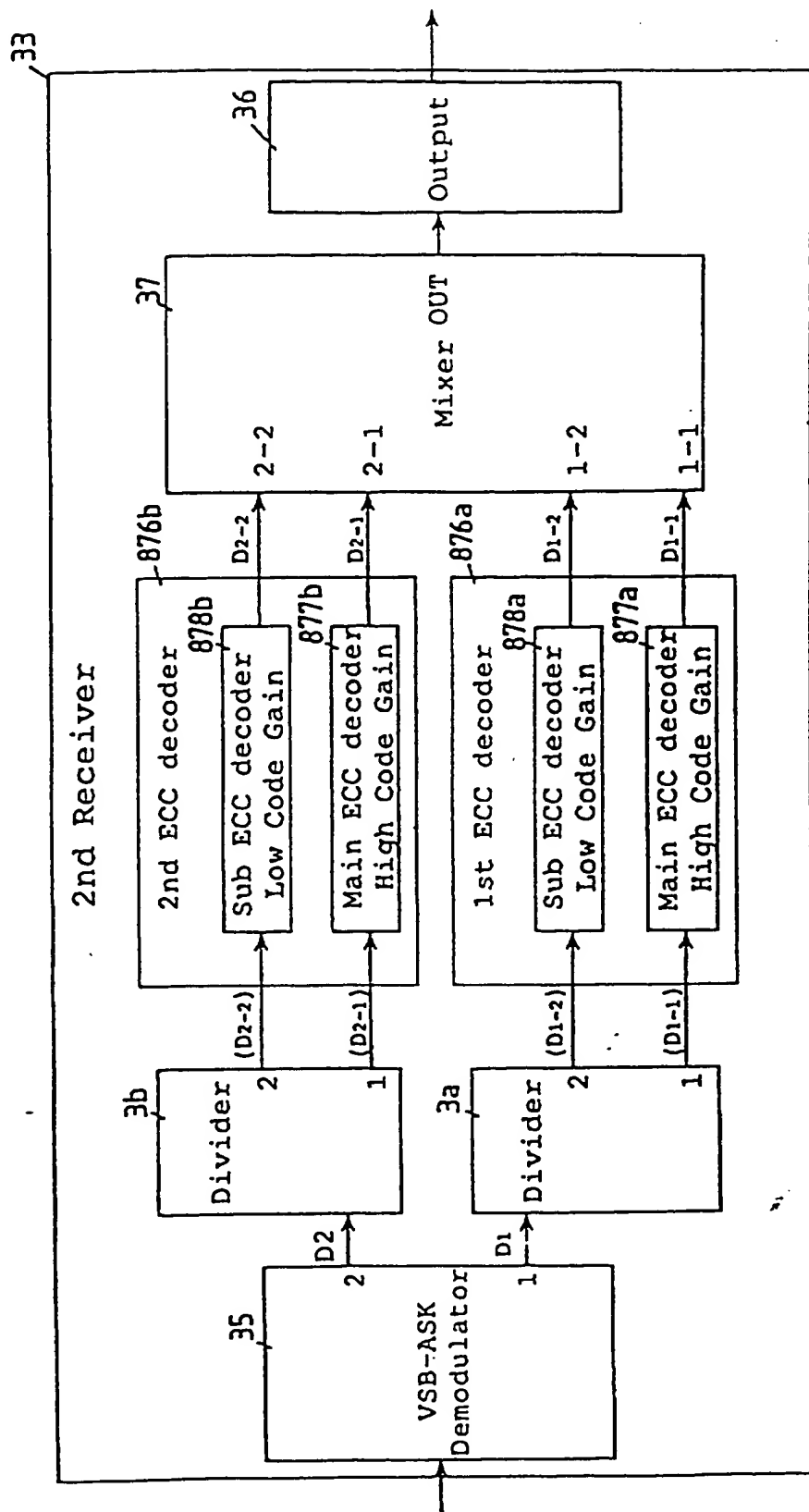


FIG. 88





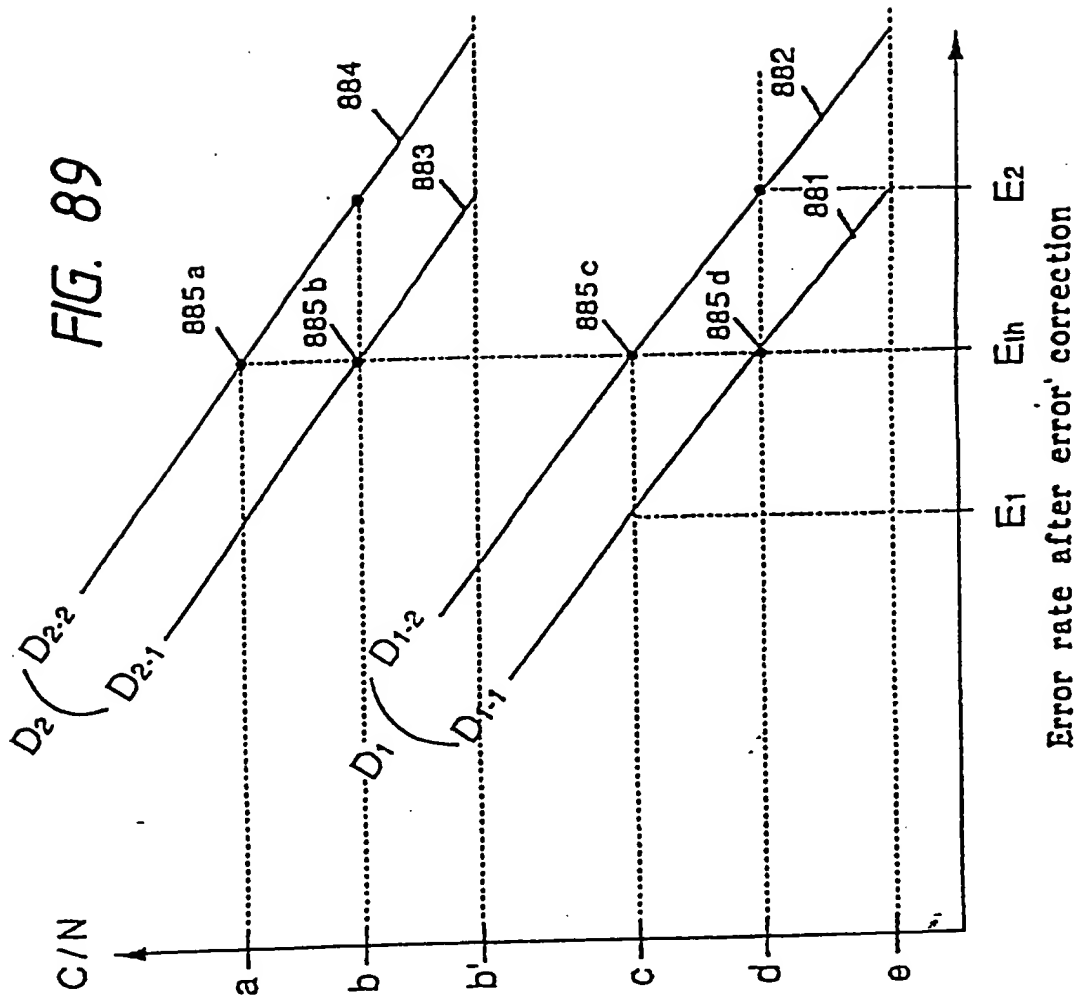


FIG. 90

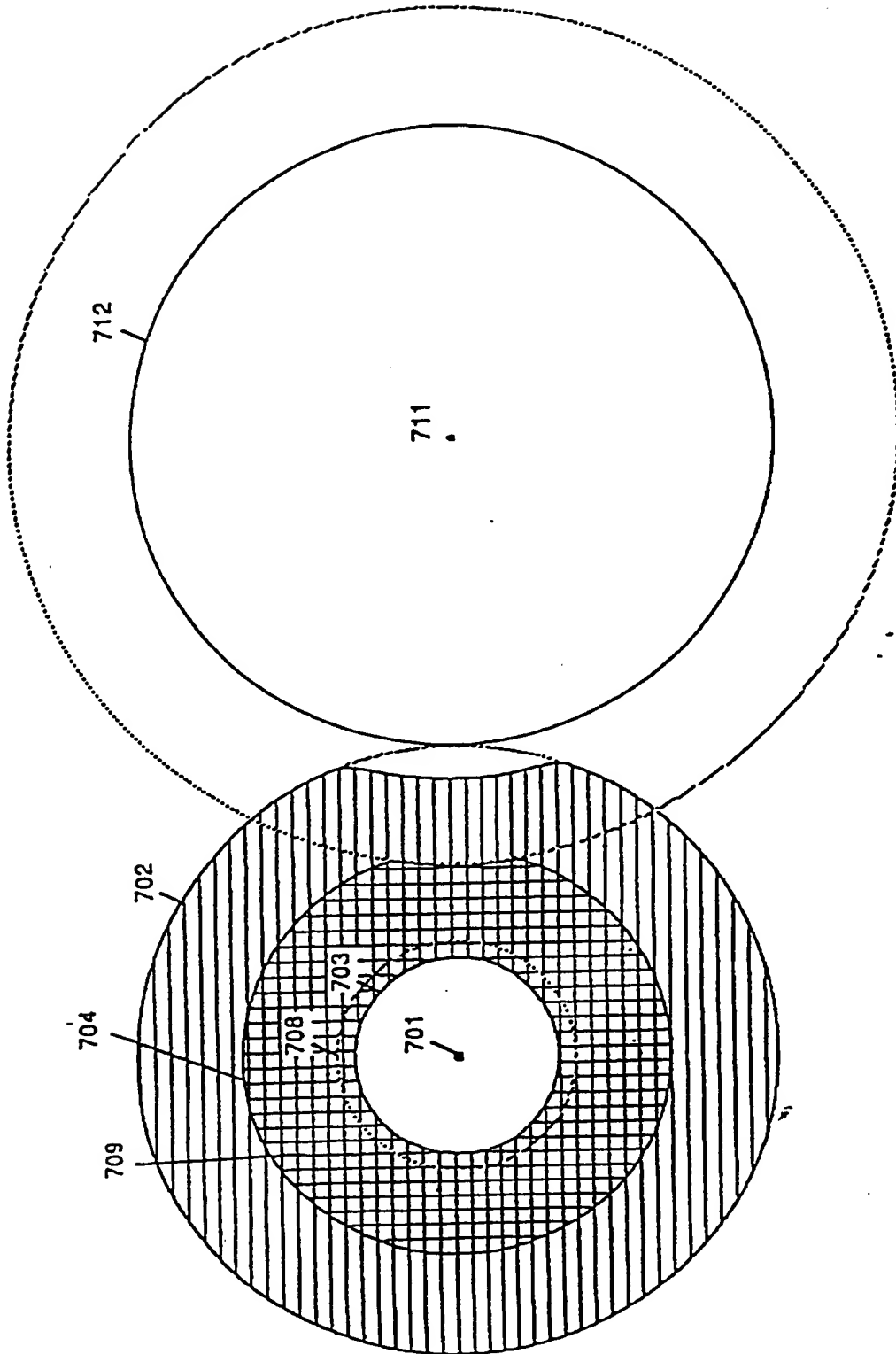


FIG. 91

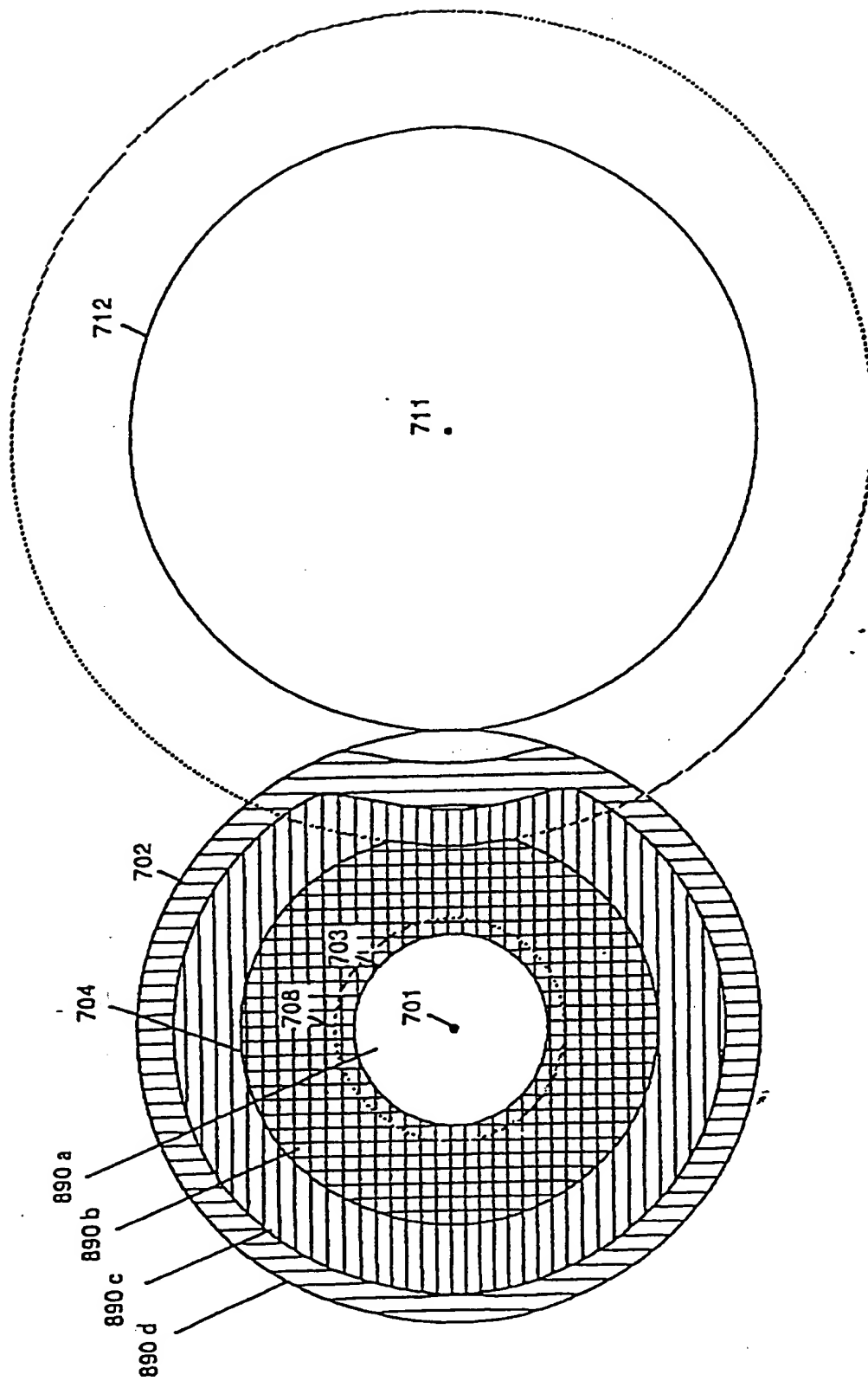


FIG. 92

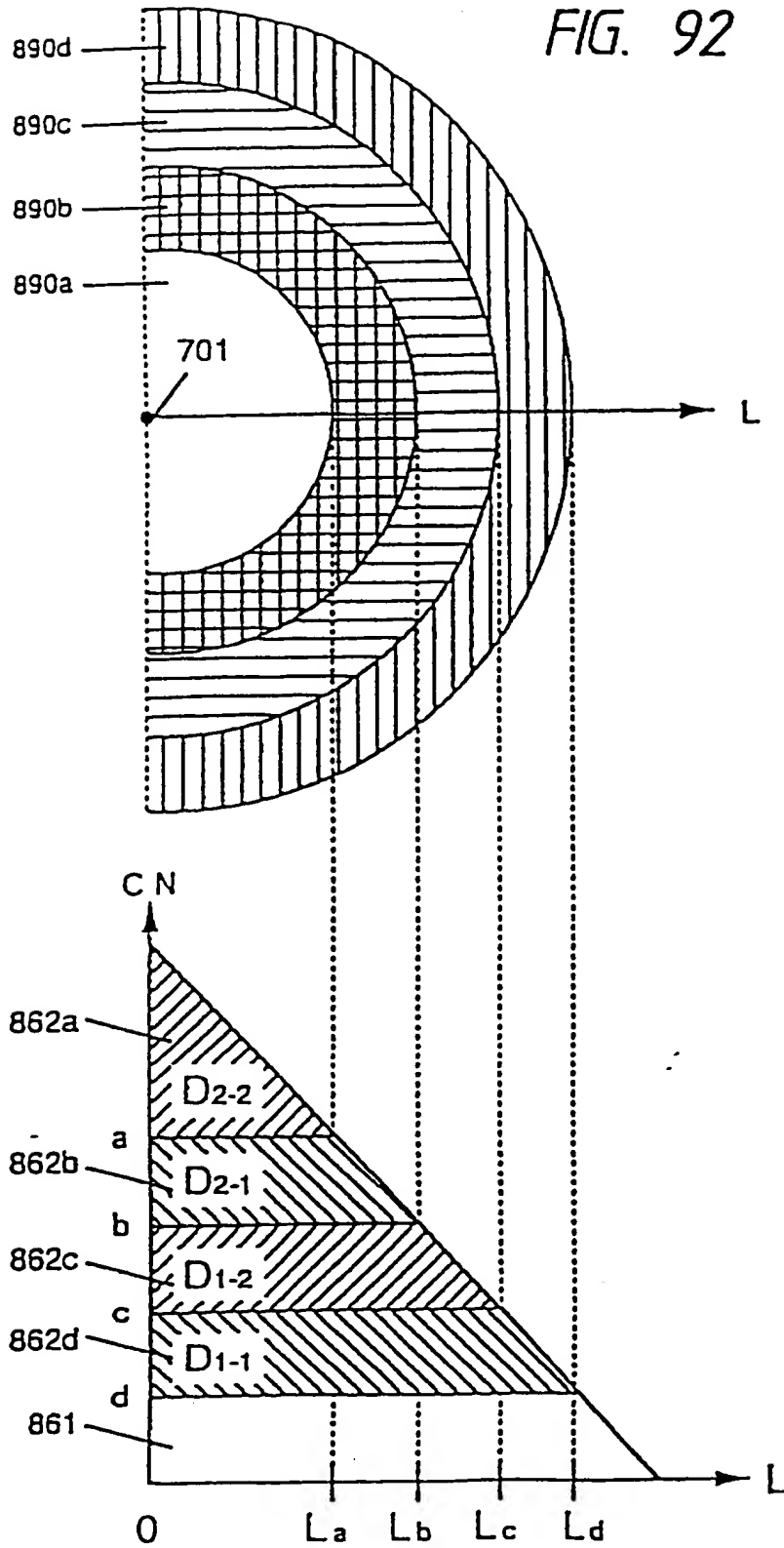


FIG. 93

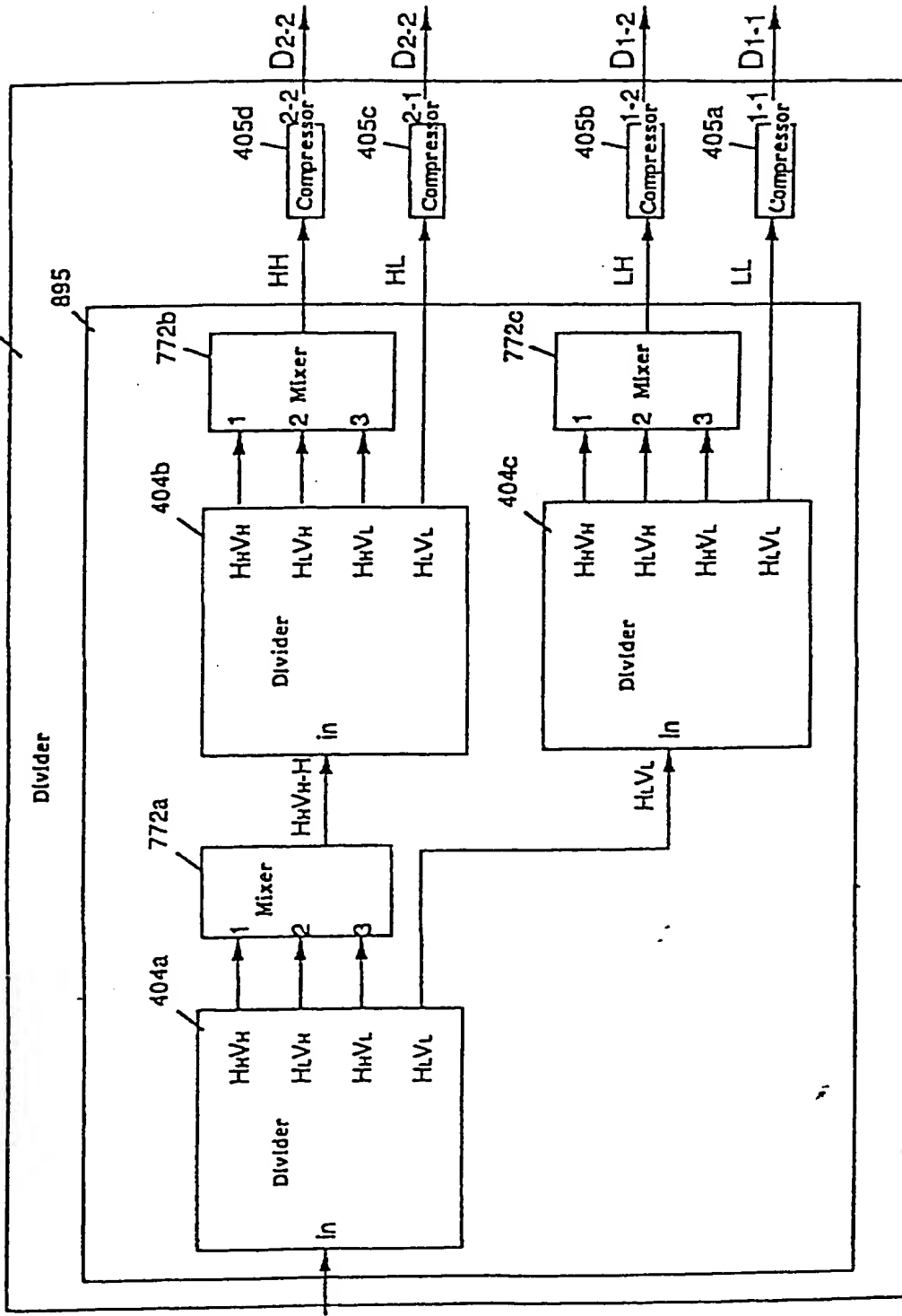


FIG. 94

33

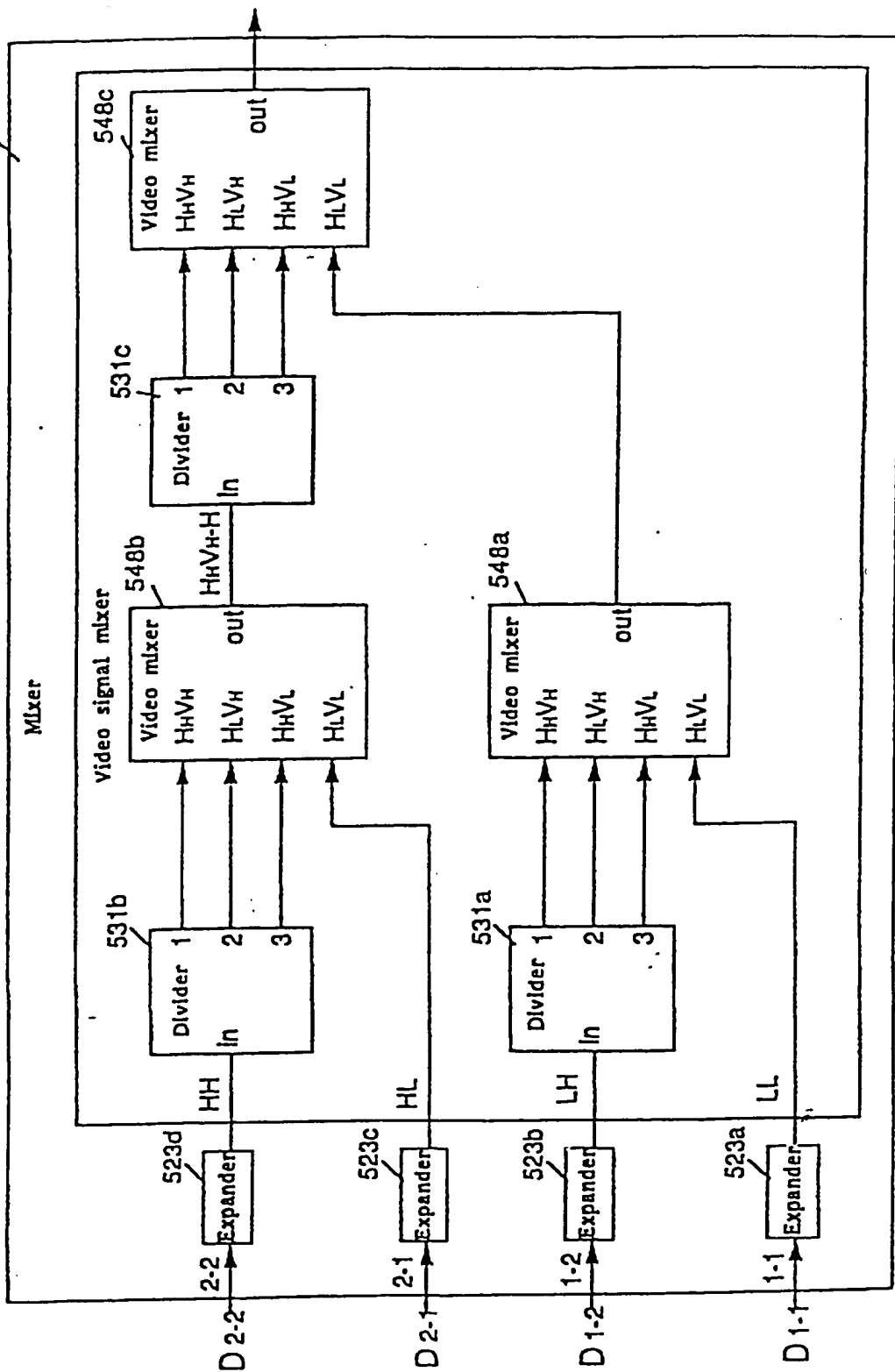


FIG. 95

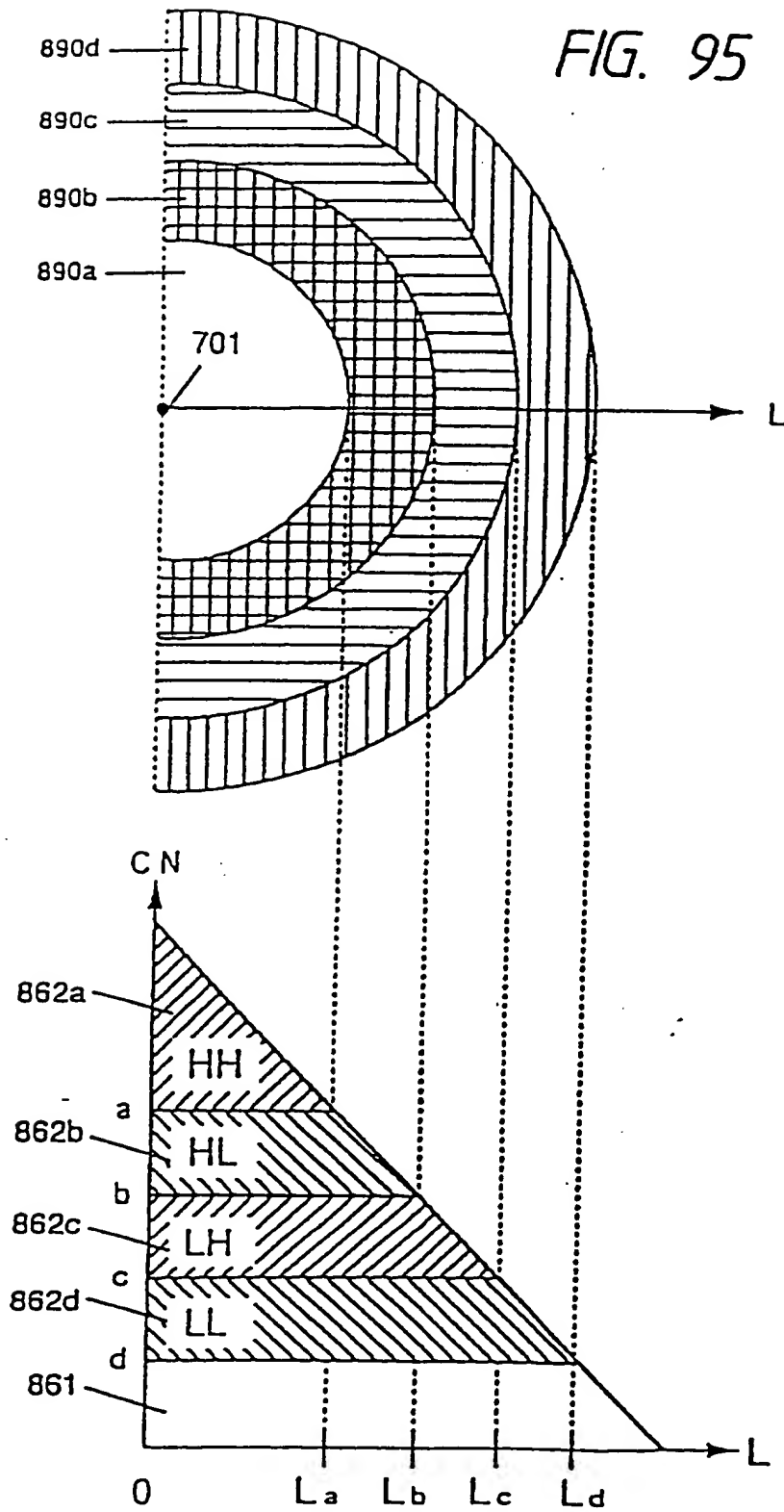


FIG. 96

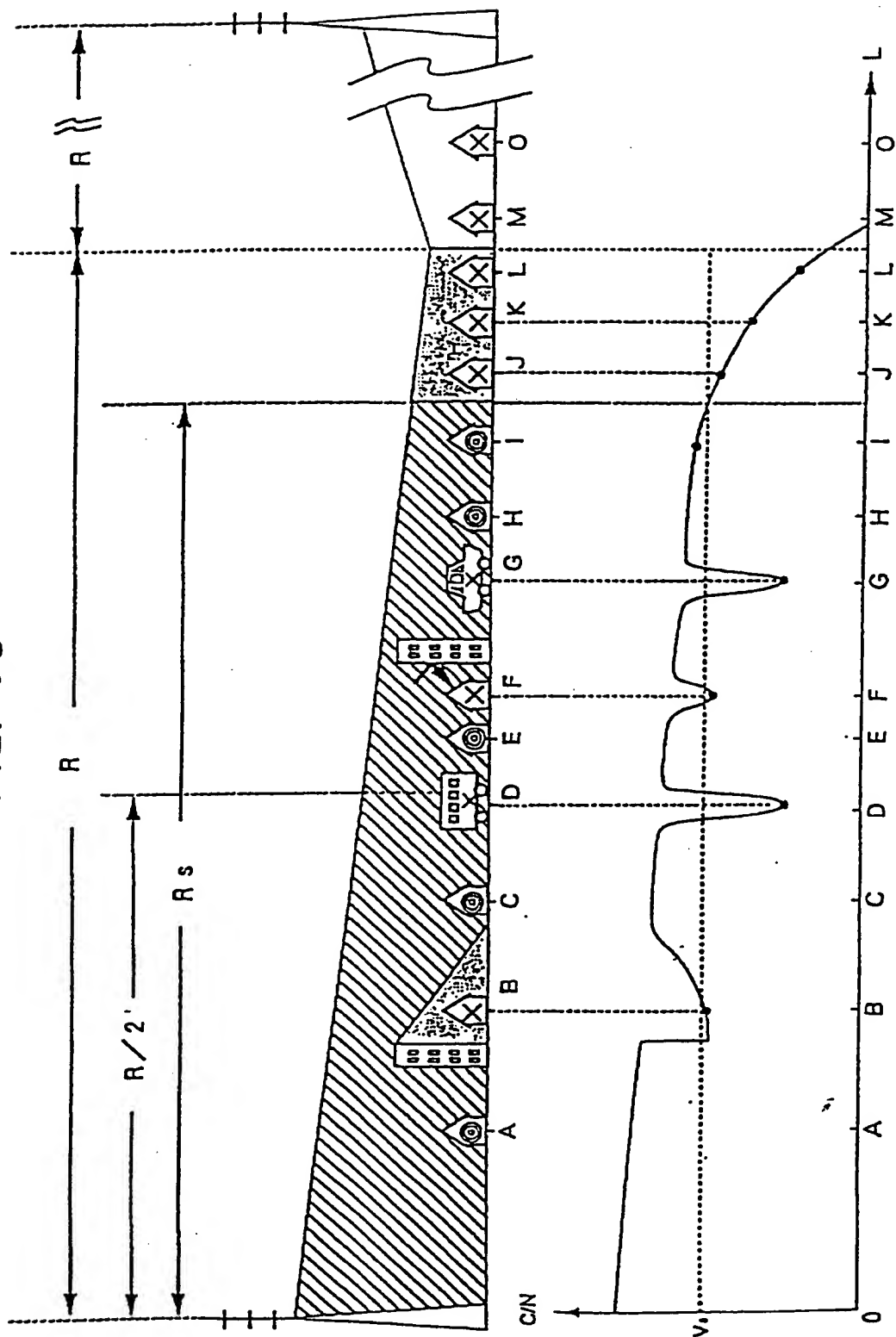




FIG. 97

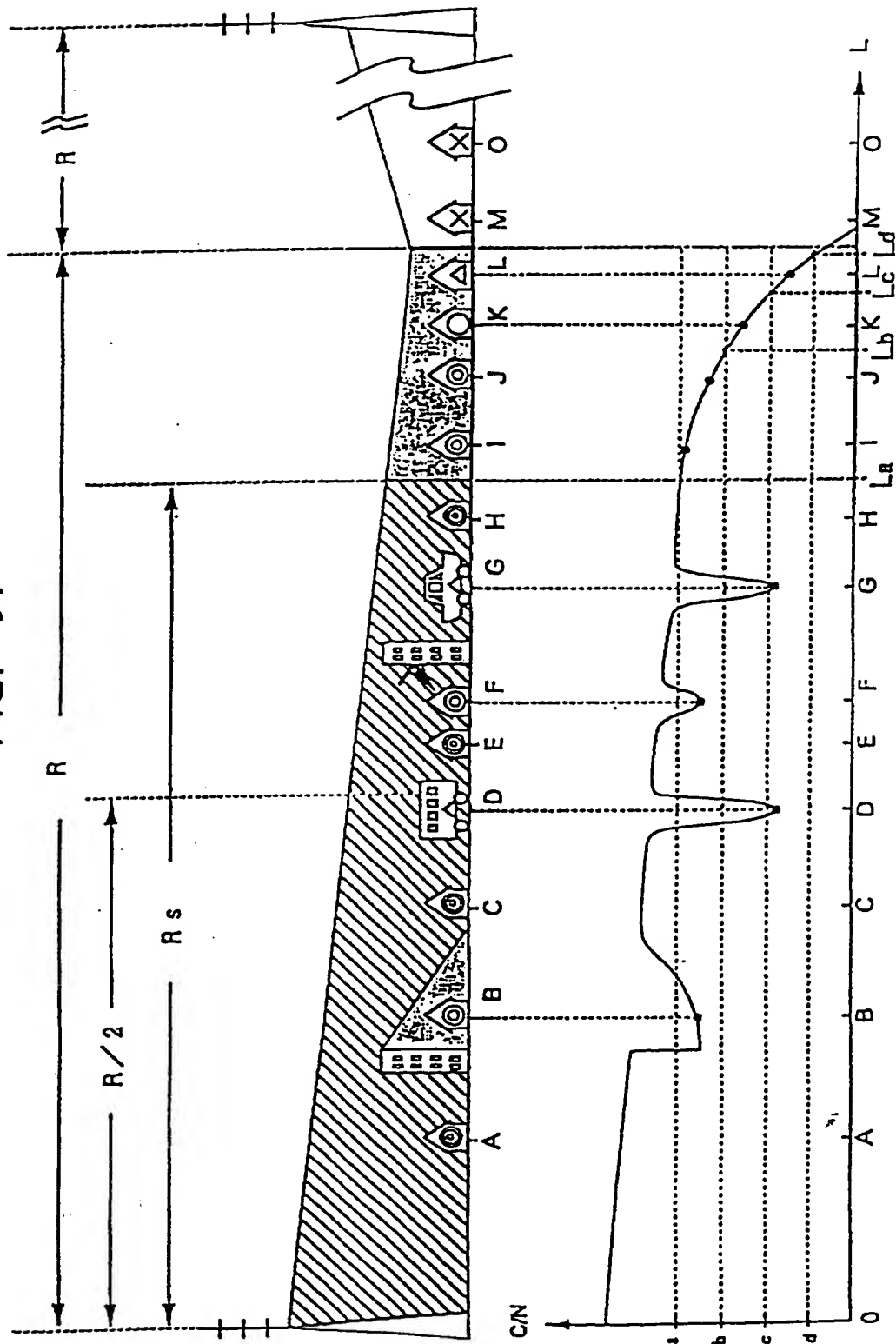


FIG. 98

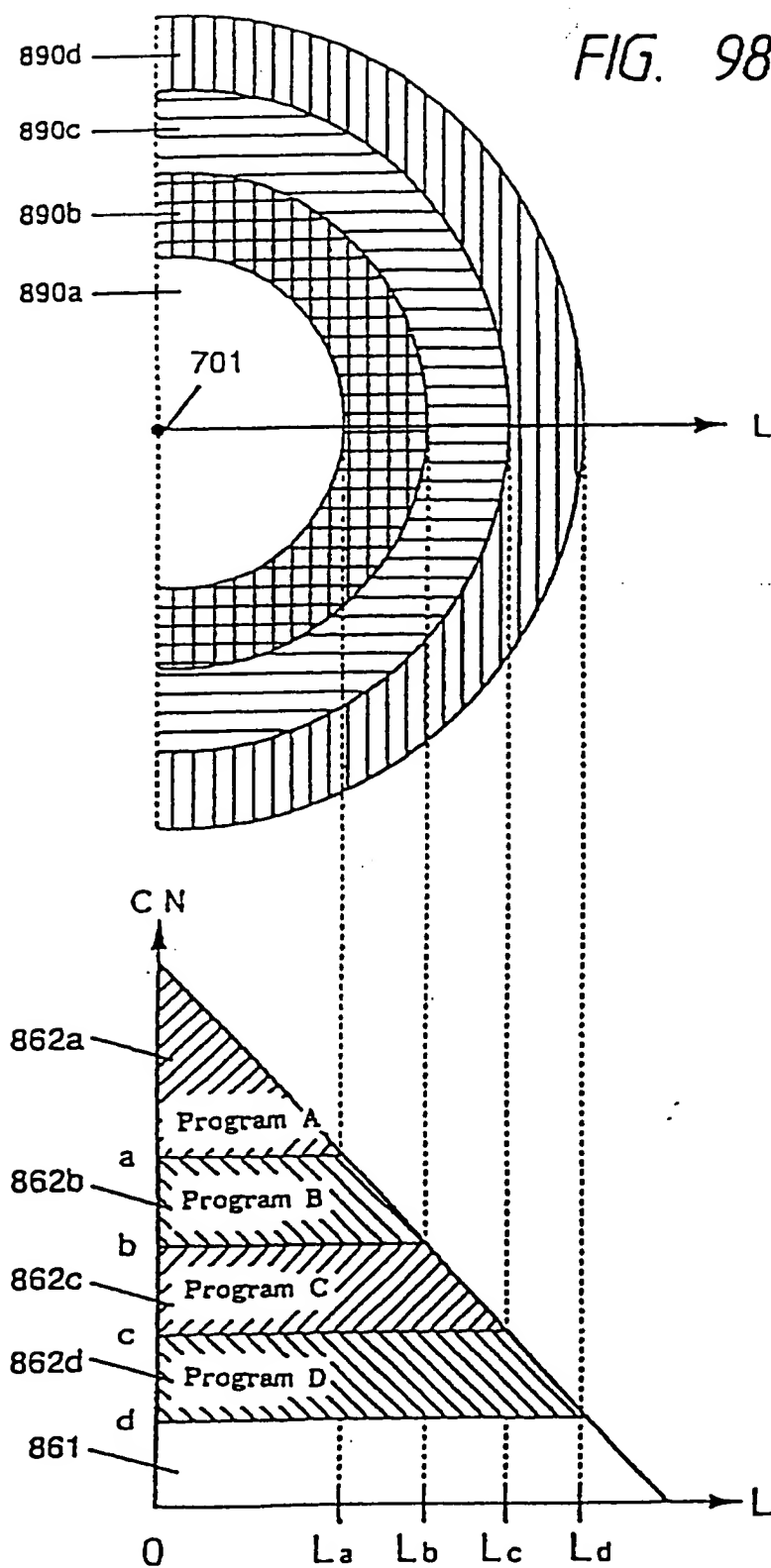


FIG. 99

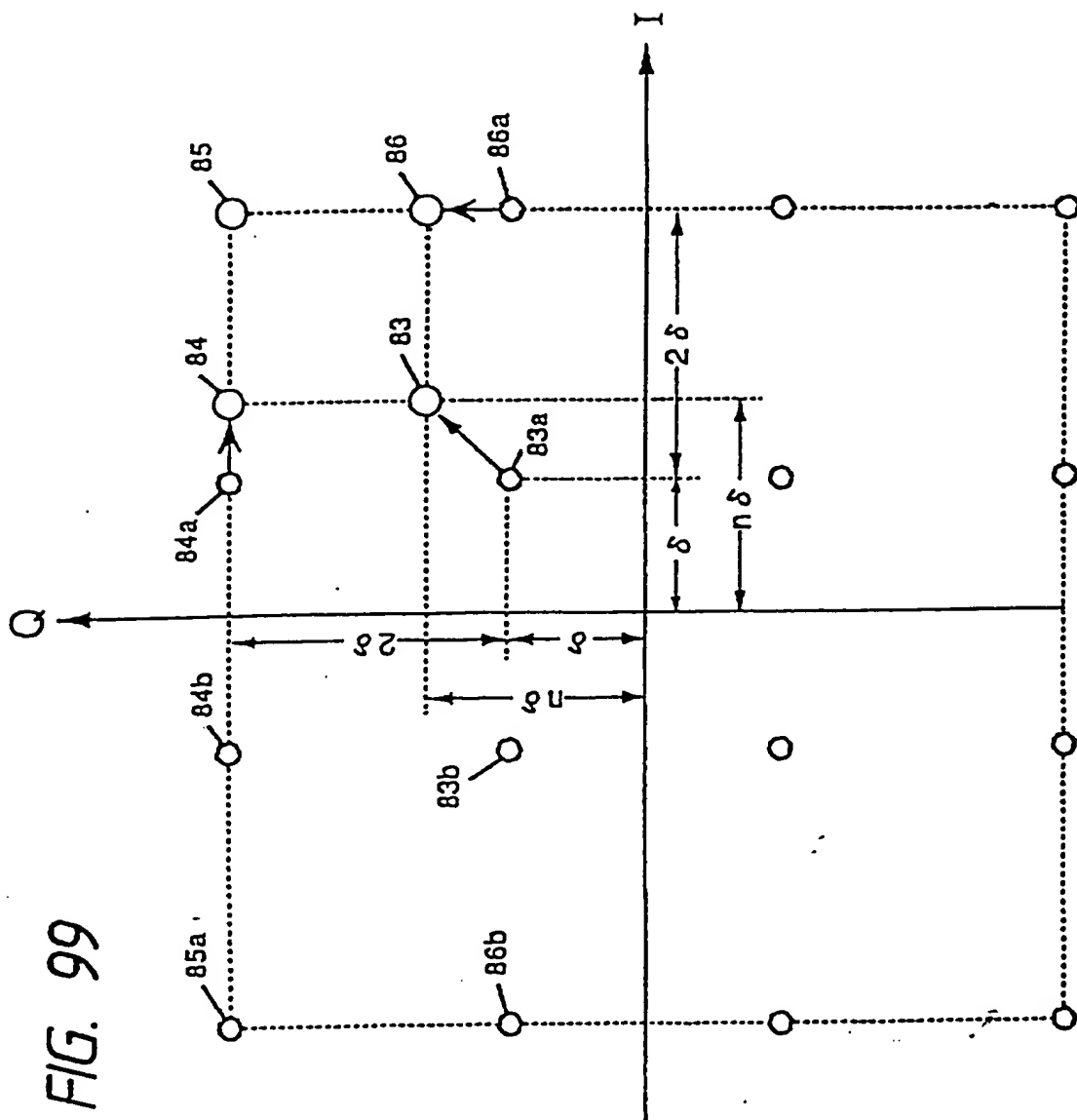


FIG. 100

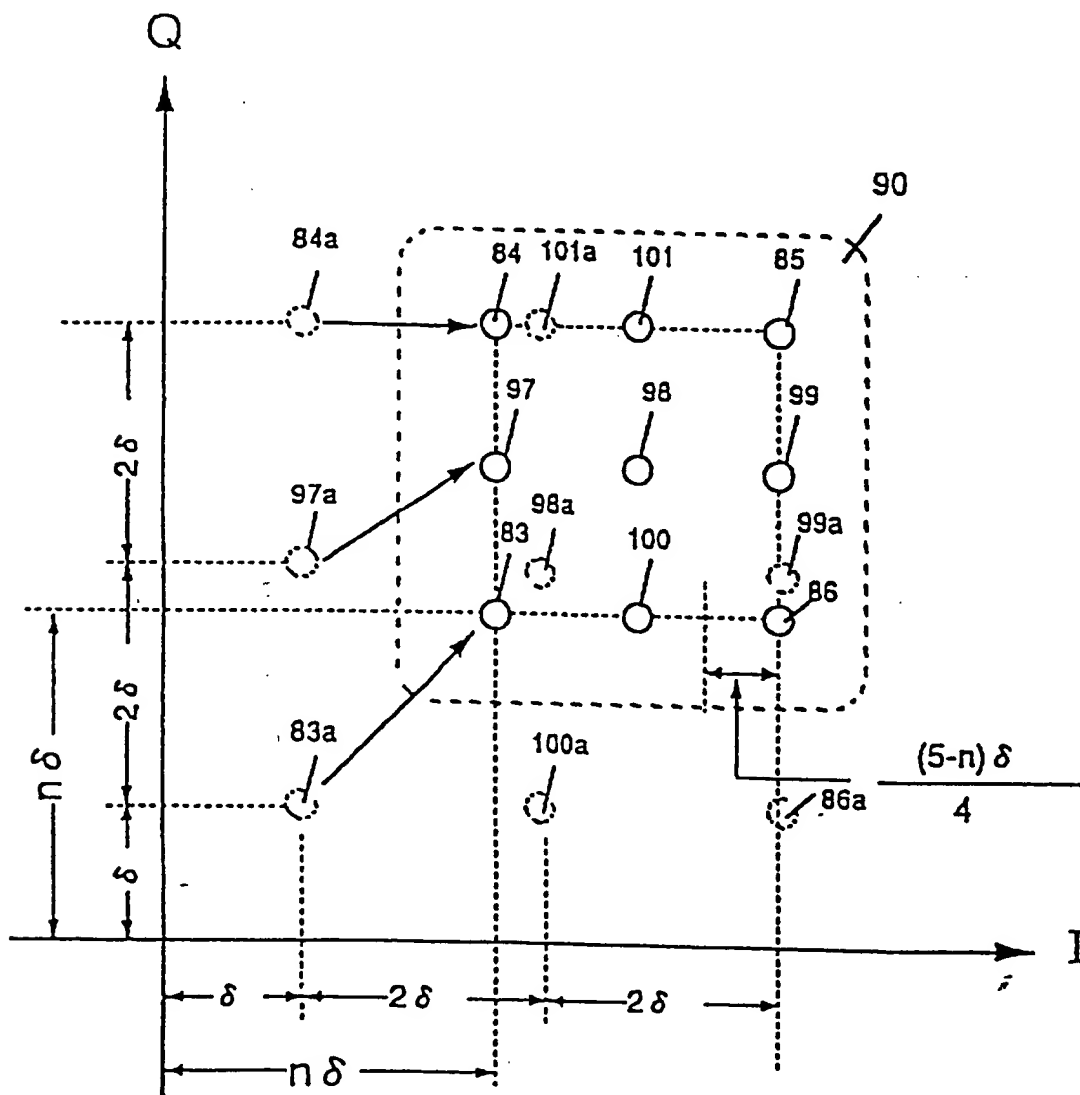


FIG. 101

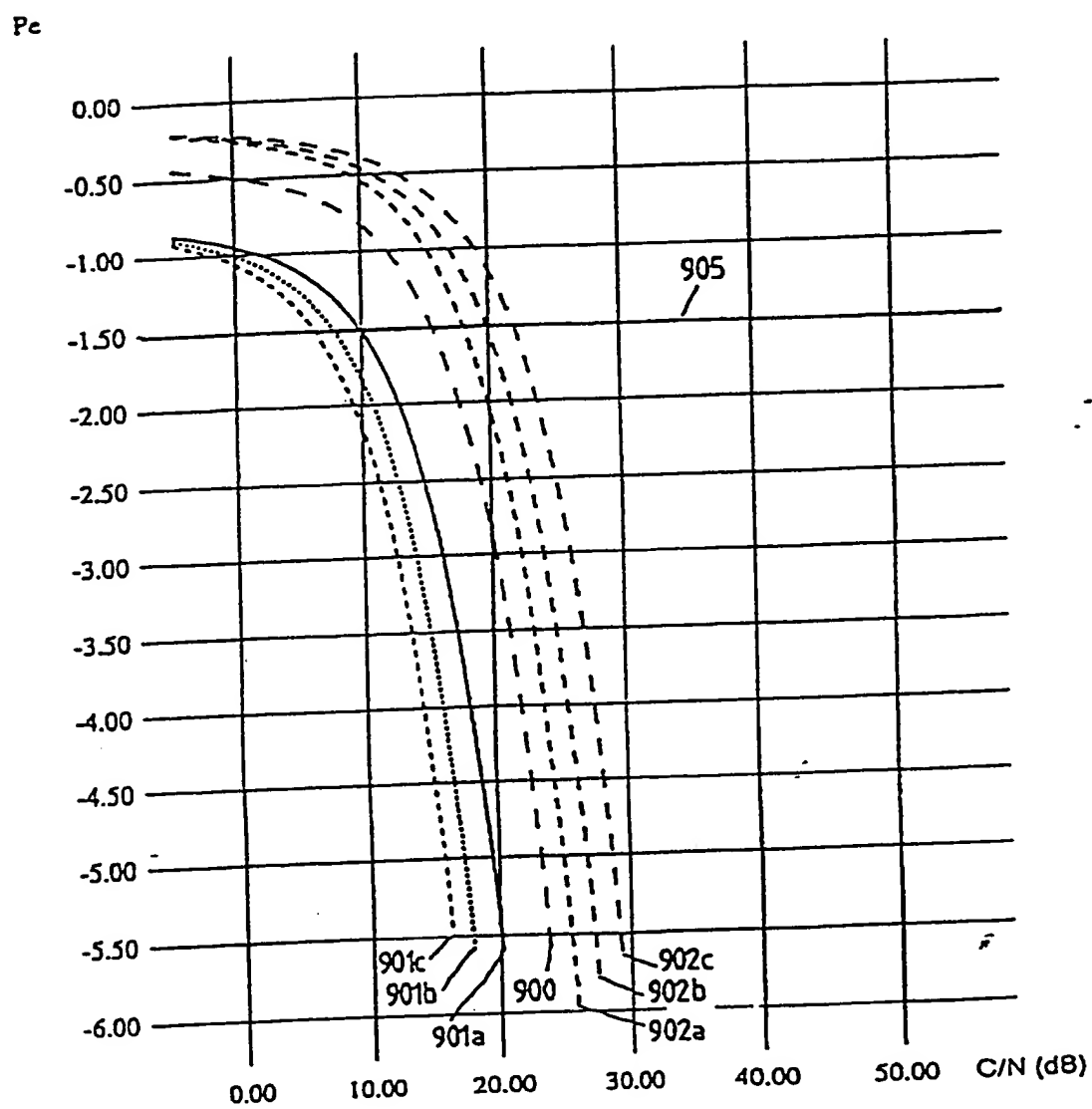


FIG. 102

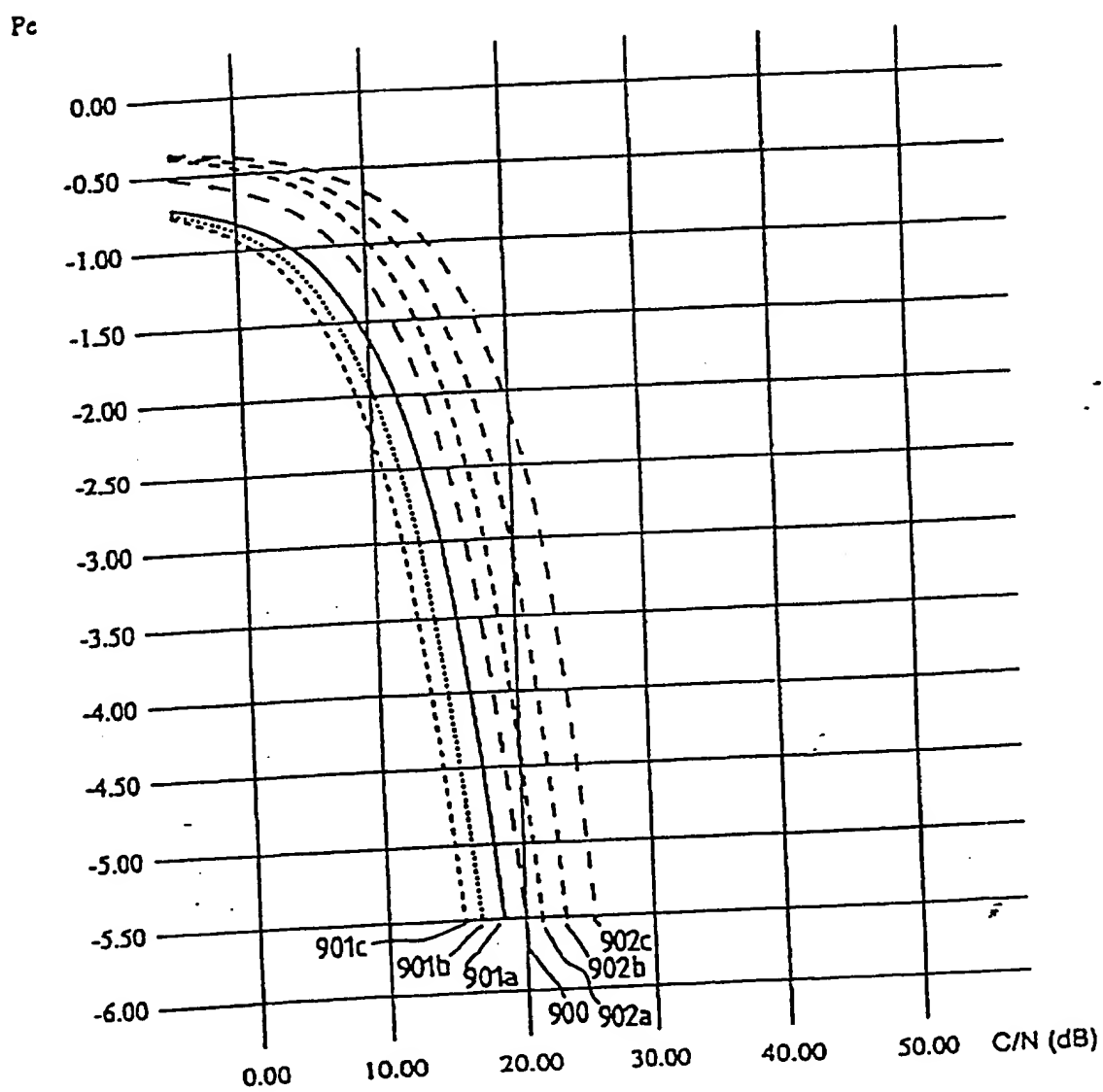


FIG. 103

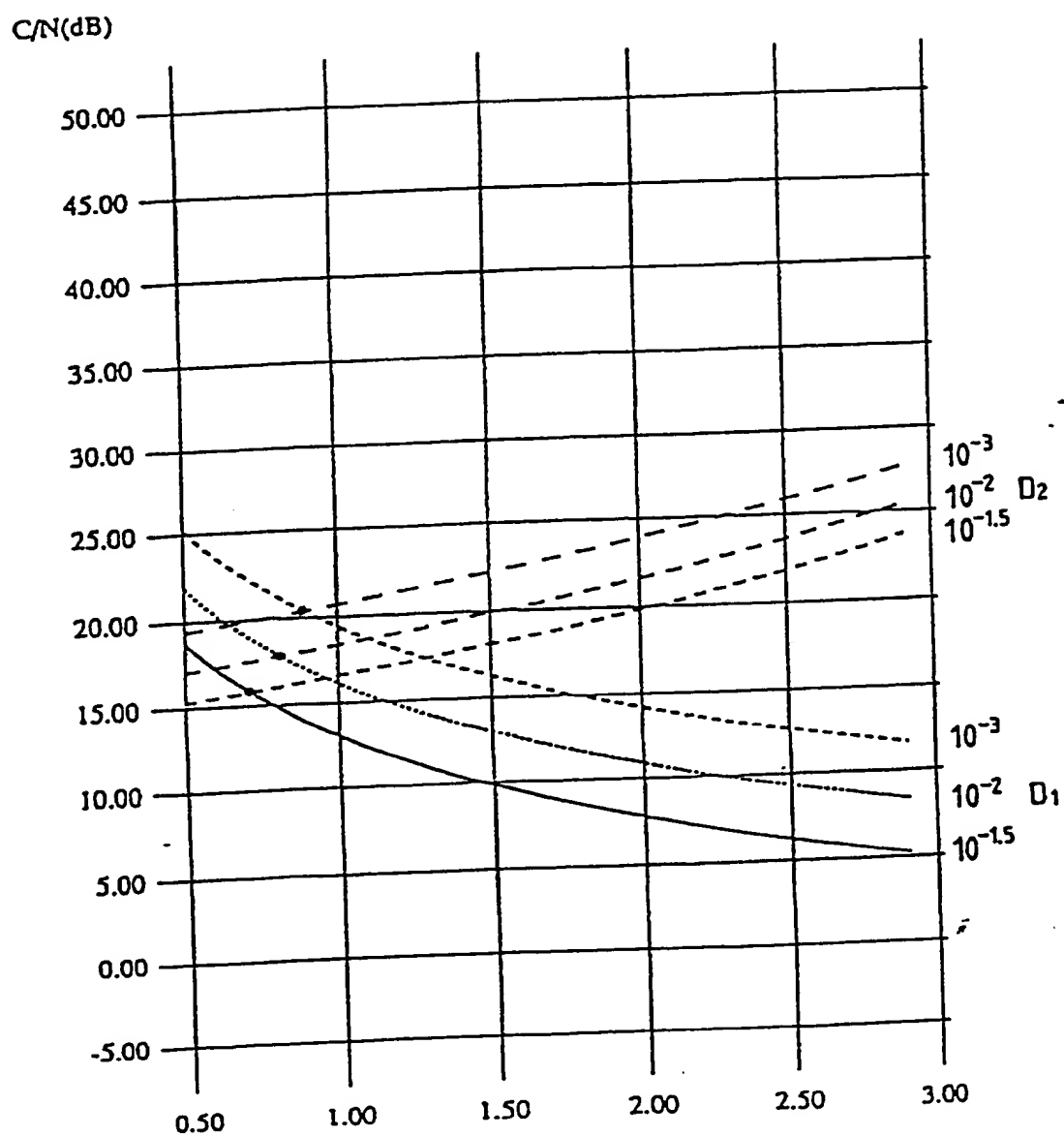


FIG. 104

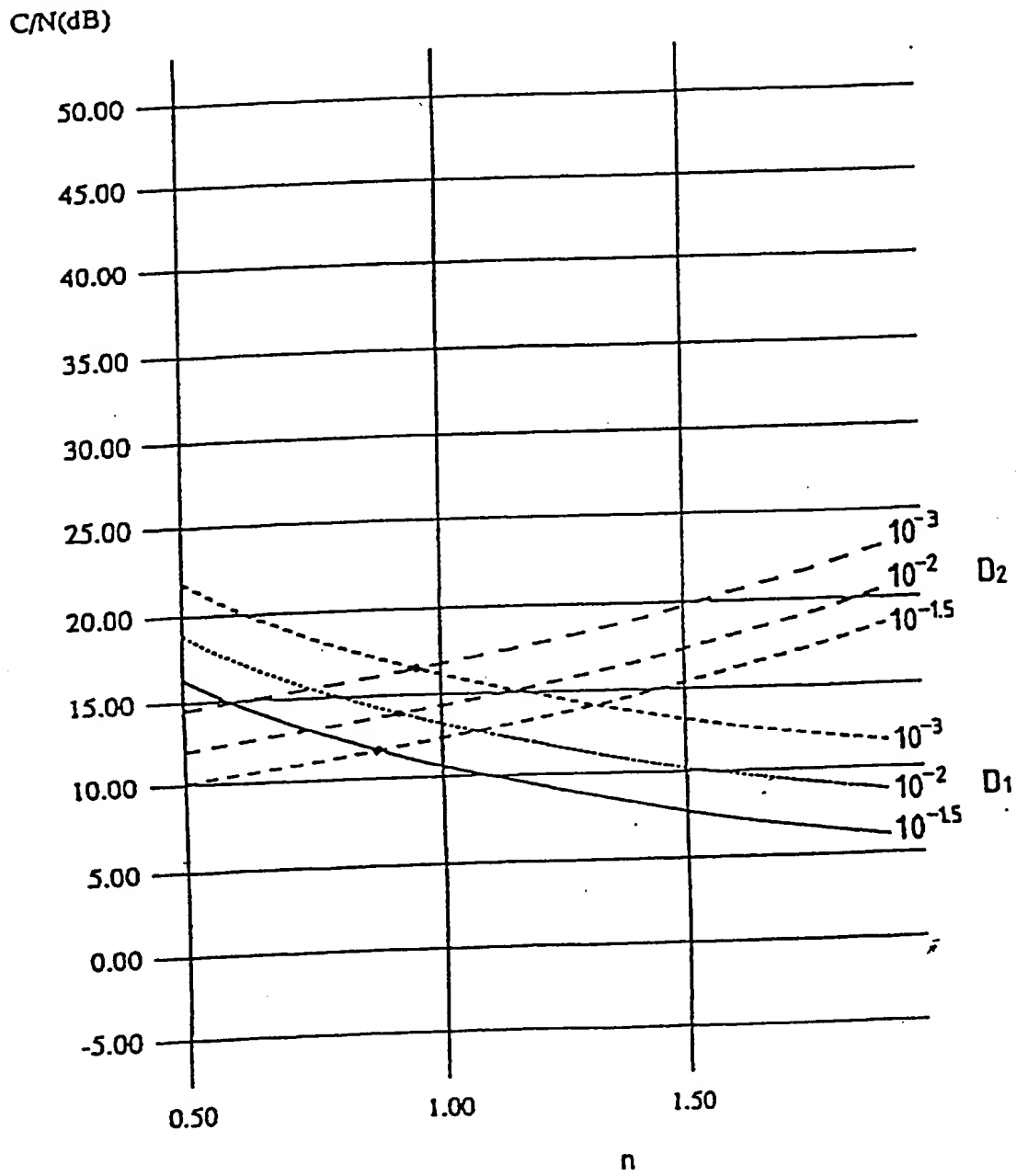




FIG. 105

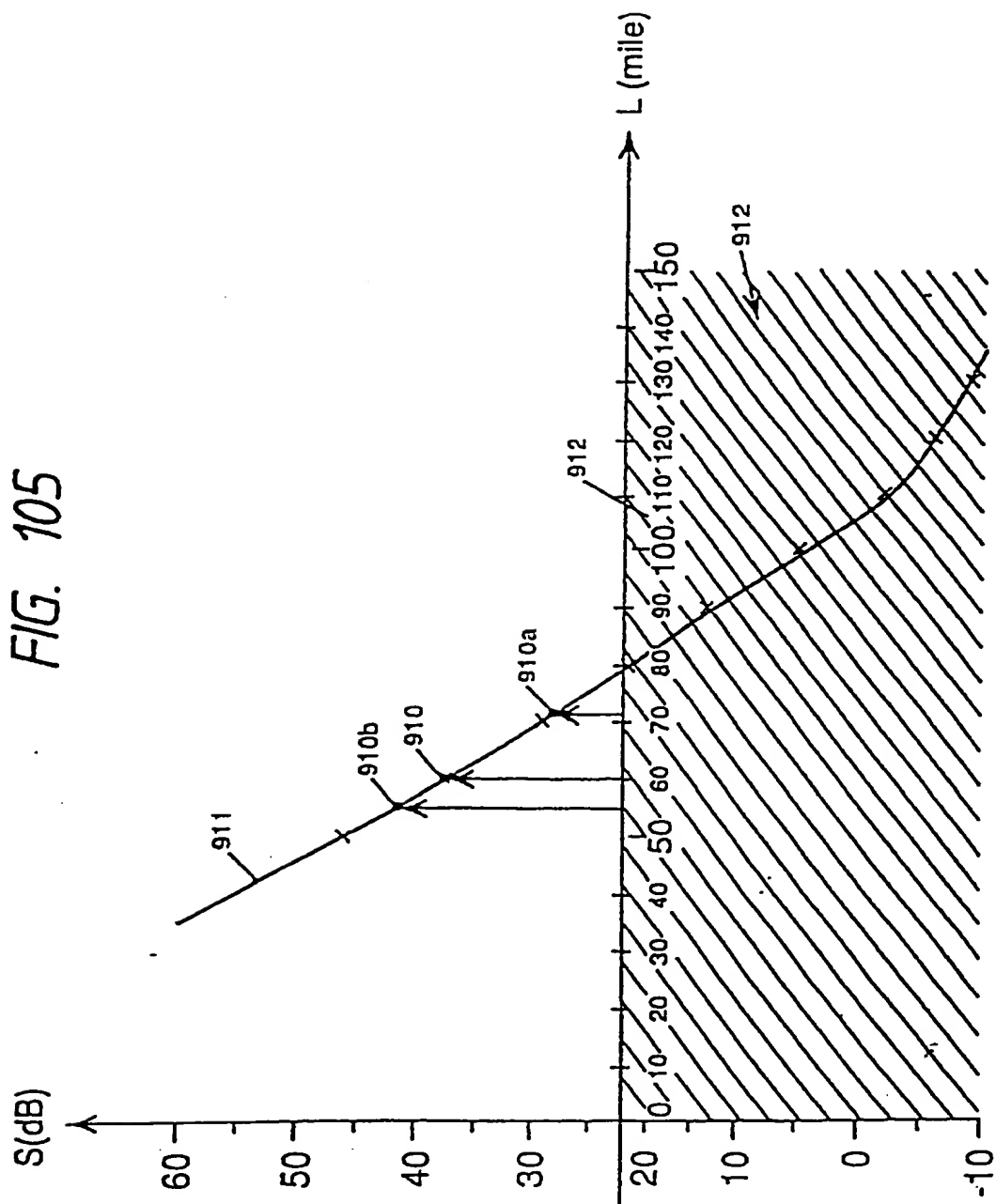


FIG. 106

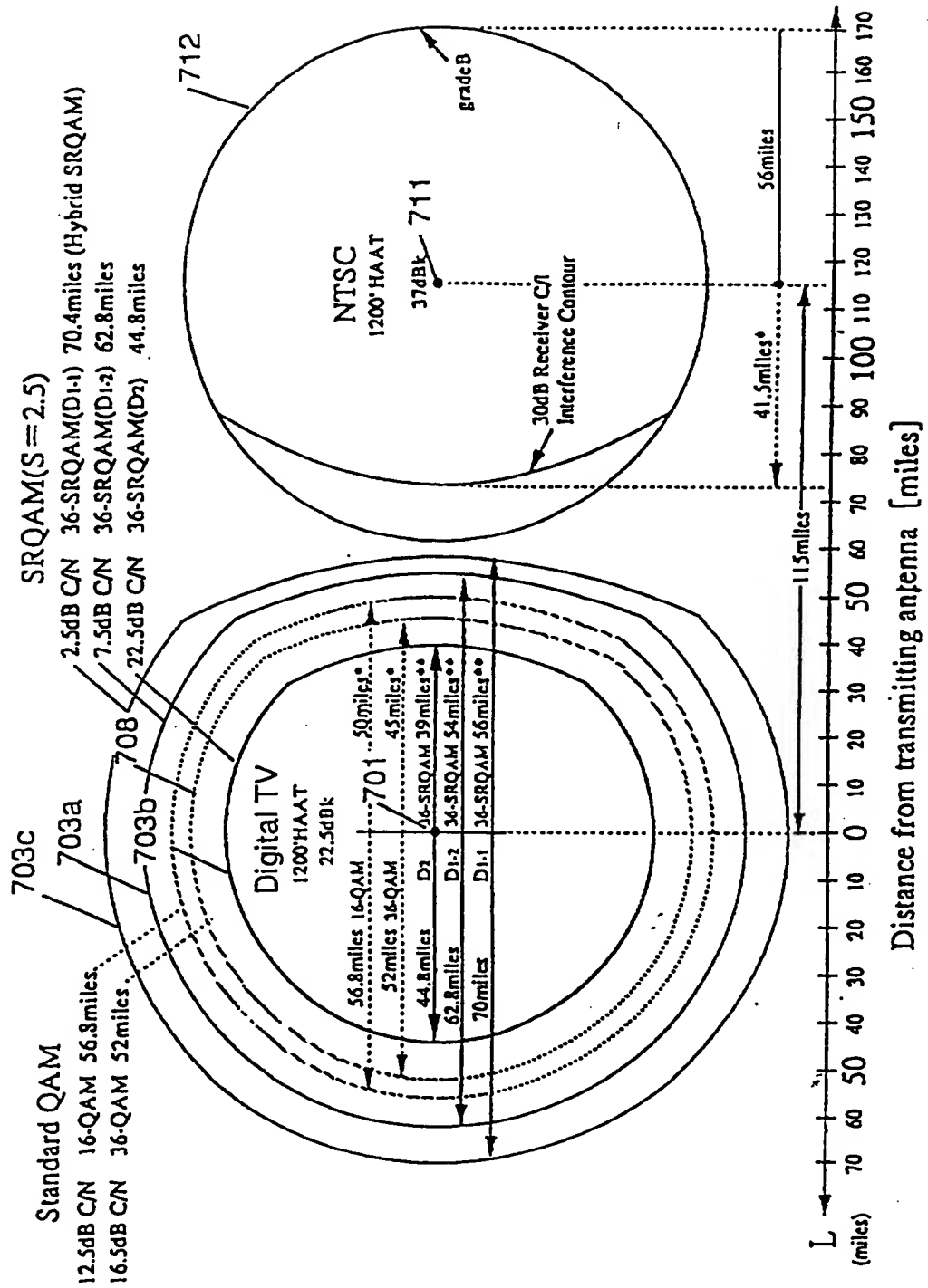
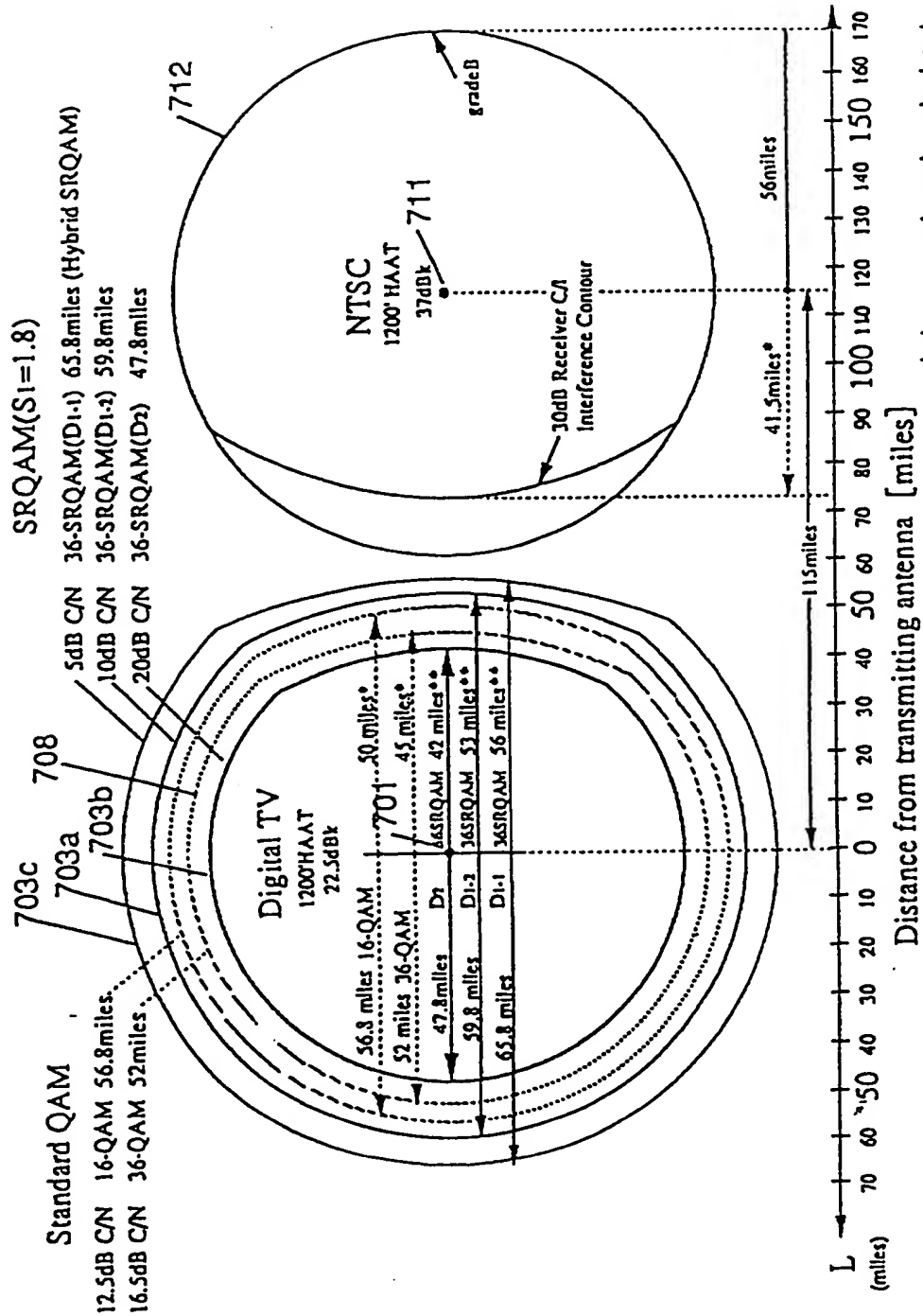


FIG. 107



\*\* : approximately calculated

FIG. 108(a)

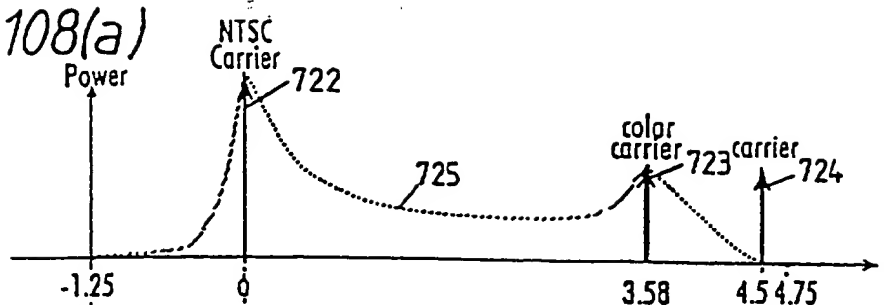


FIG. 108(b)

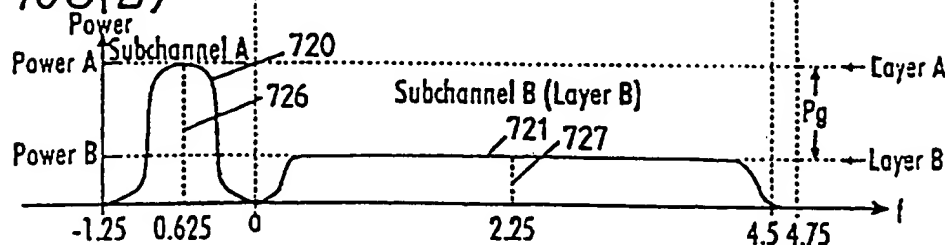


FIG. 108(c)

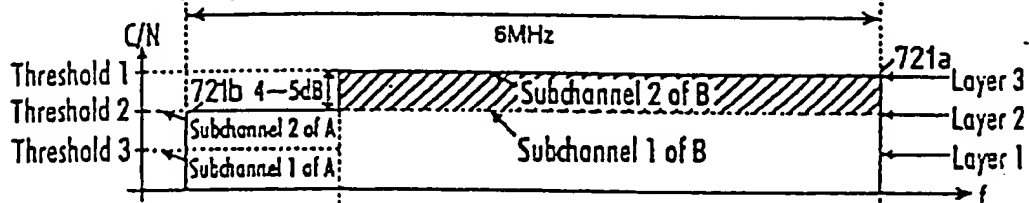


FIG. 108(d)

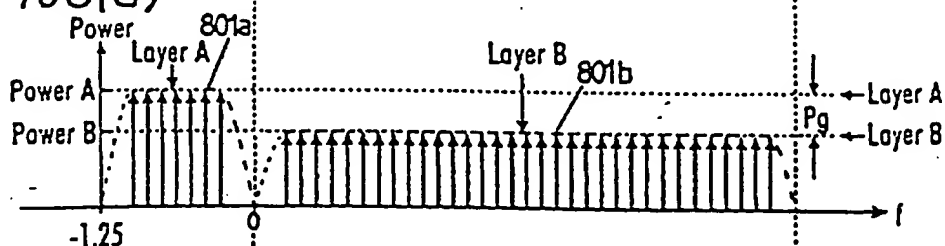


FIG. 108(e)

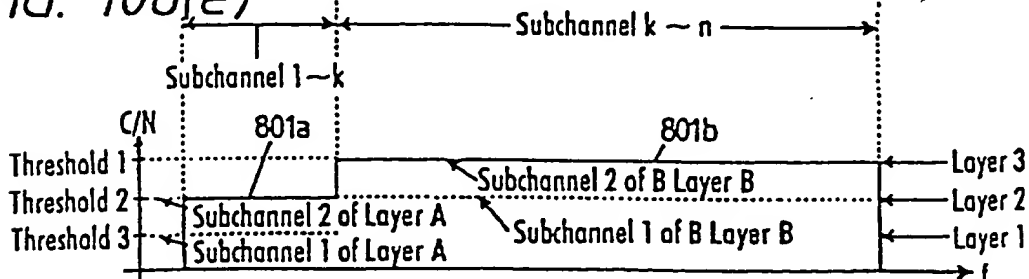


FIG. 109

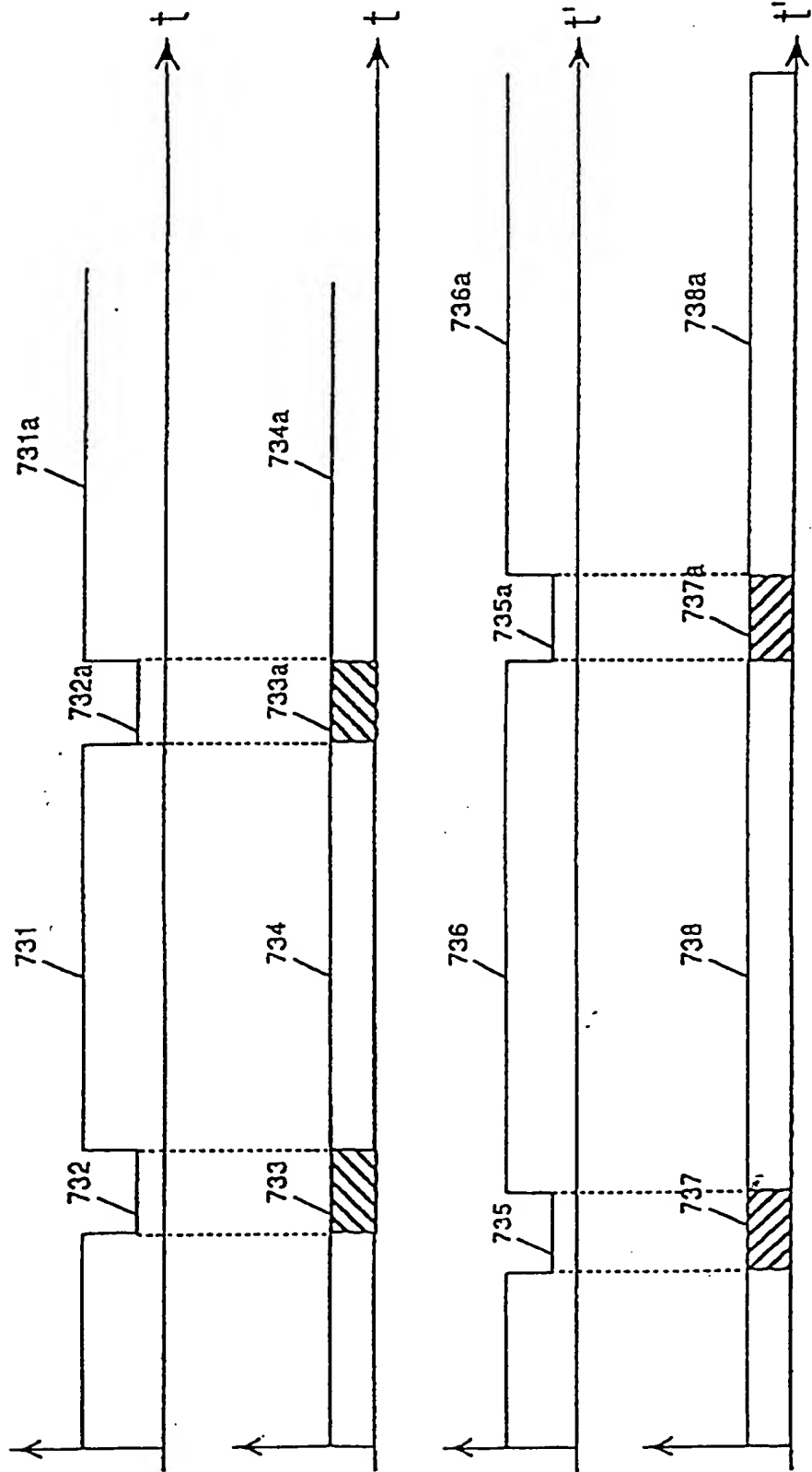


FIG. 110

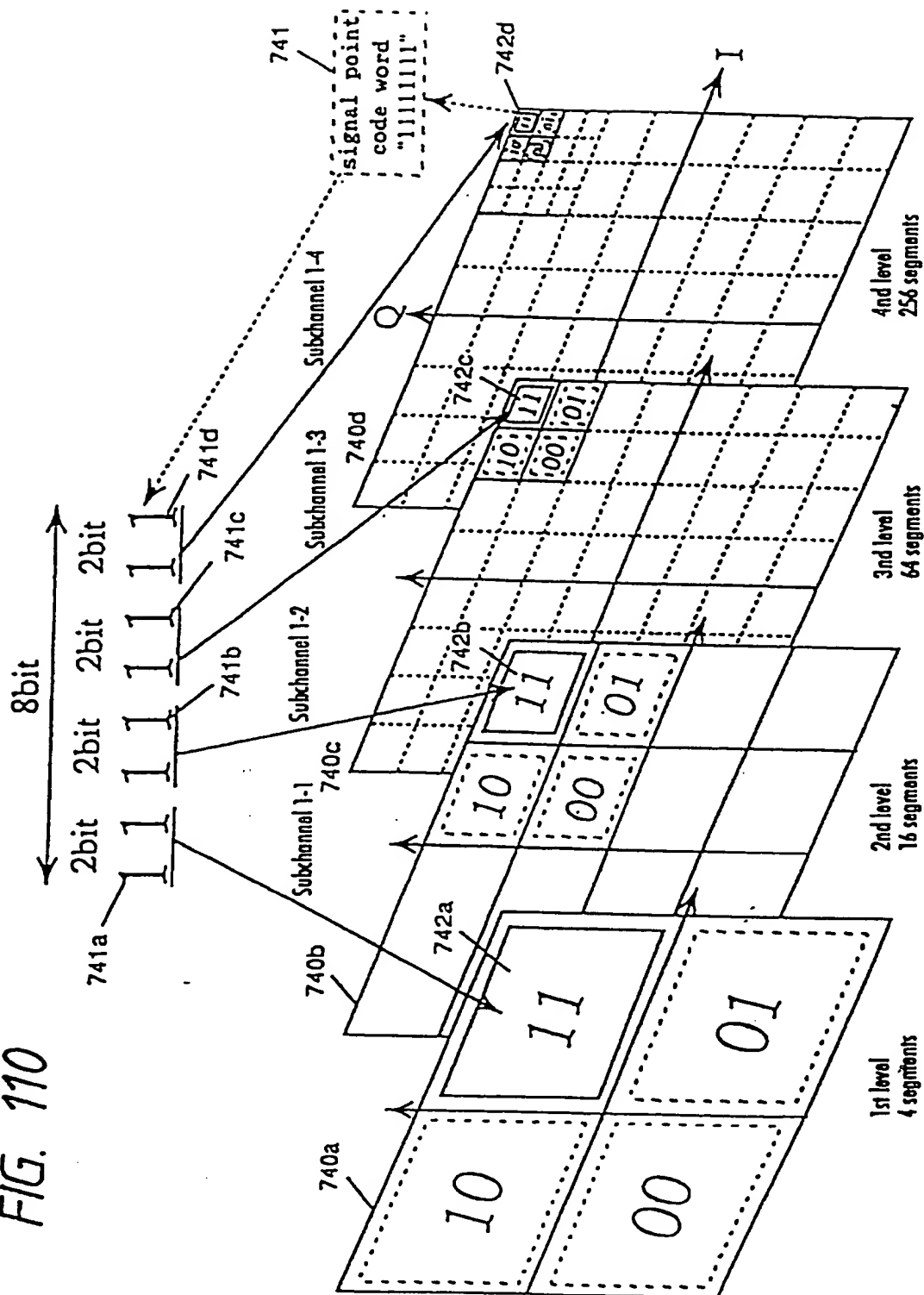
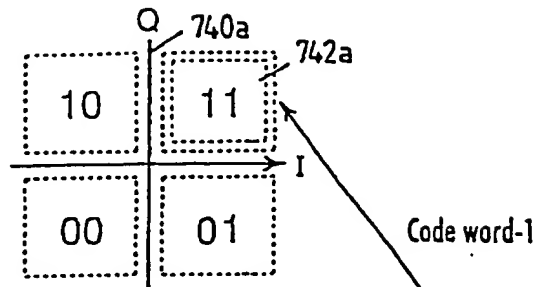
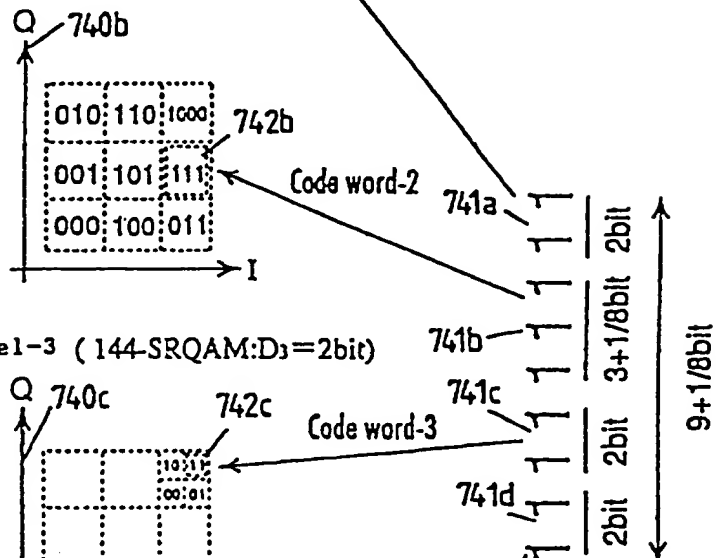


FIG. 111

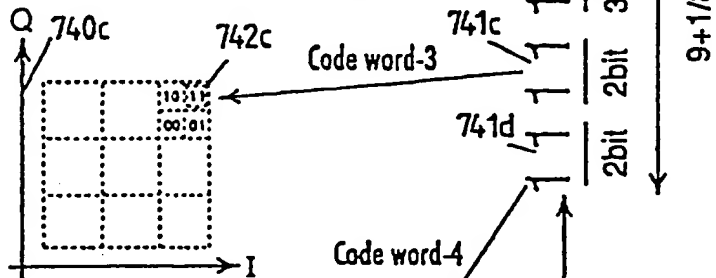
Subchannel-1 (SRQAM:  $D_1=2\text{bit}$ )



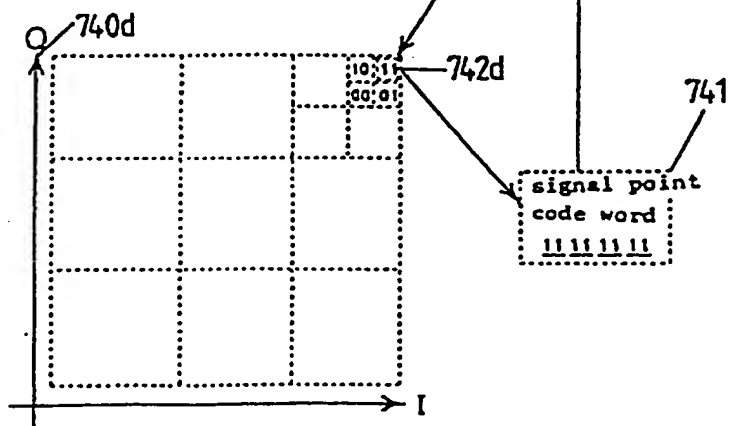
Subchannel-2 (36-SRQAM:  $D_2=3\text{bit}+1/8\text{bit}$ )



Subchannel-3 (144-SRQAM:  $D_3=2\text{bit}$ )



Subchannel-4 (576-SRQAM:  $D_4=2\text{bit}$ )



Subchannel-1 (SRQAM:  $D_1=2\text{bit}$ )

FIG. 112

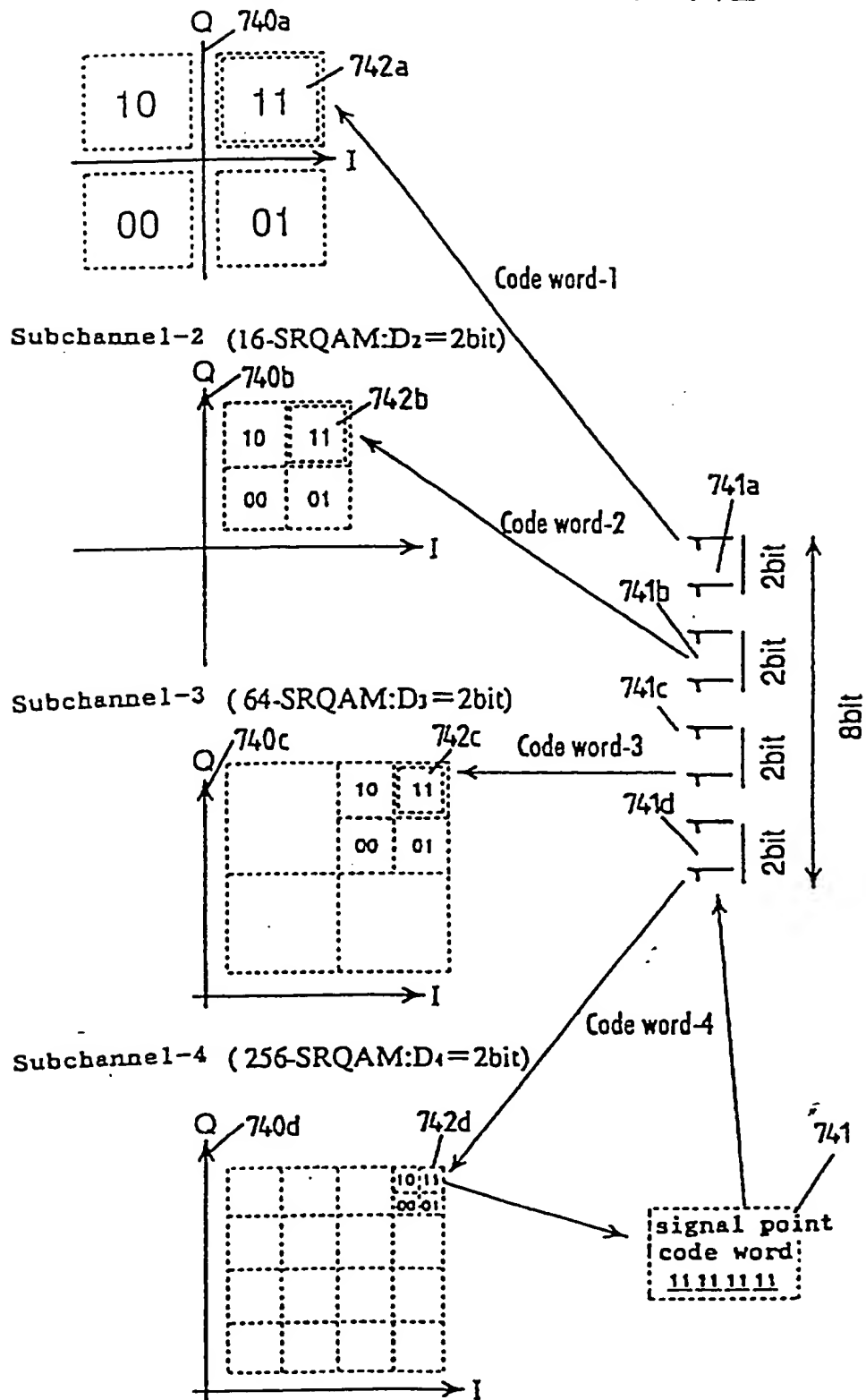




FIG. 113

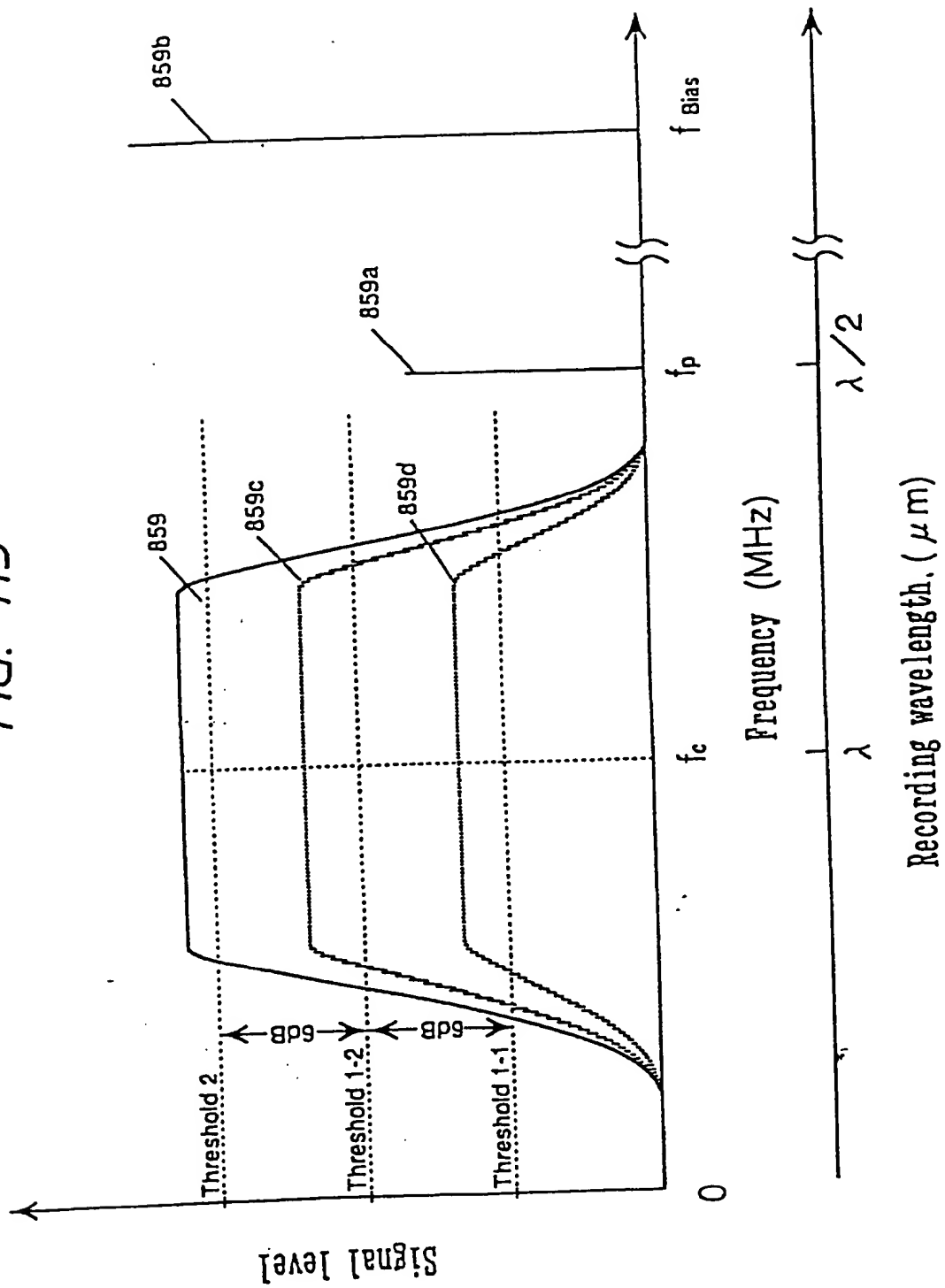


FIG. 114

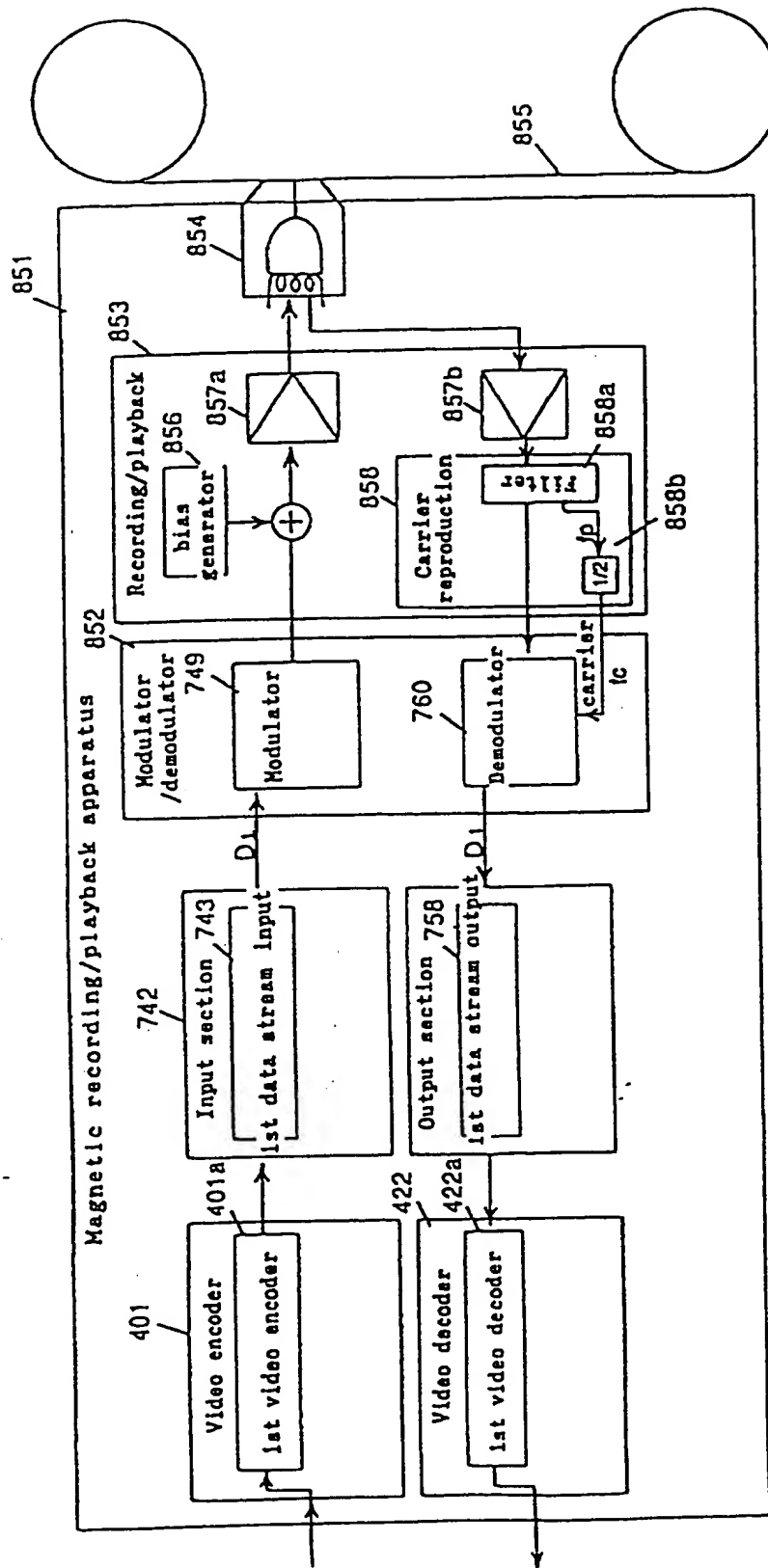


FIG. 115

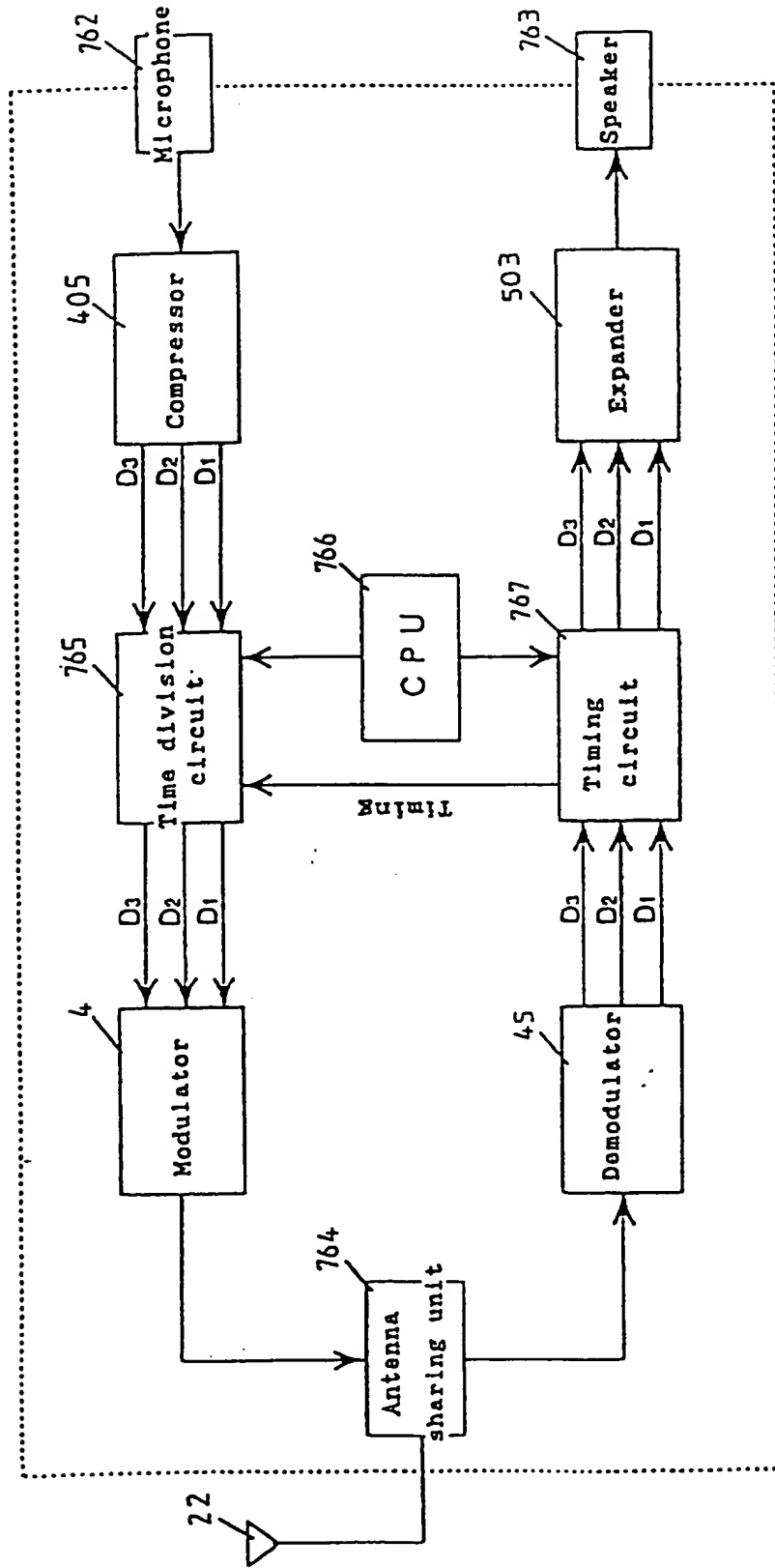


FIG. 116

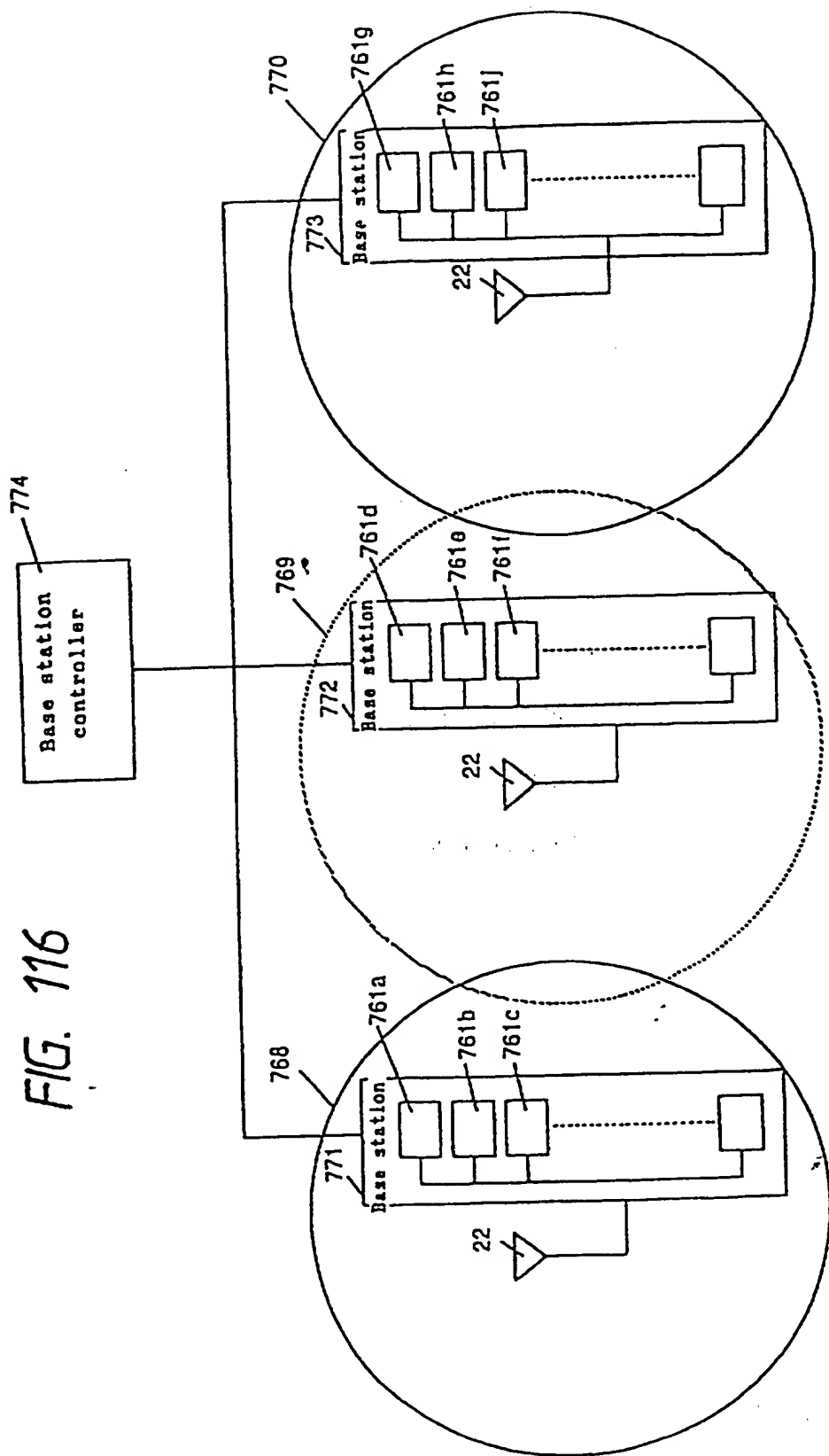


FIG. 117

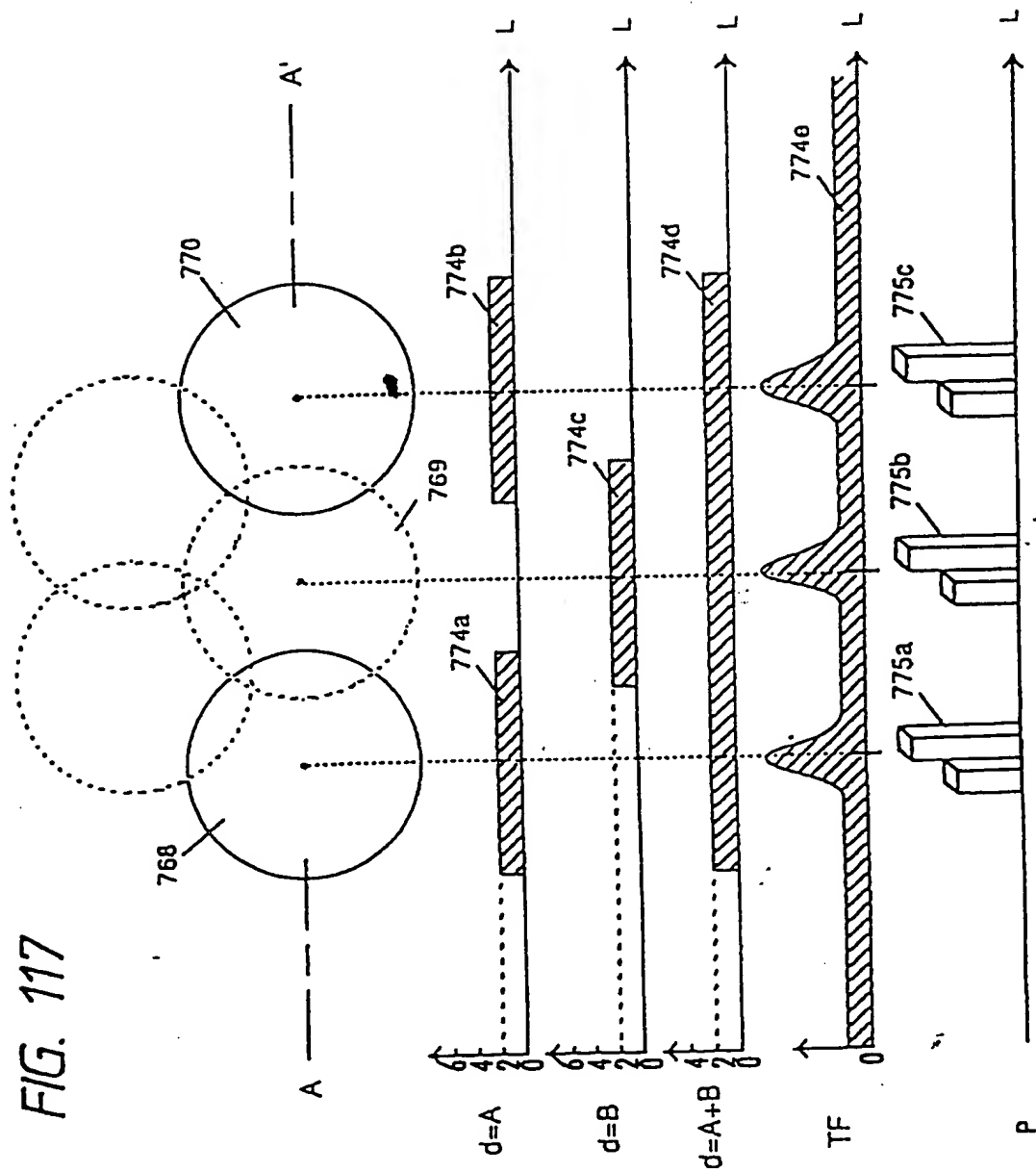


FIG. 118

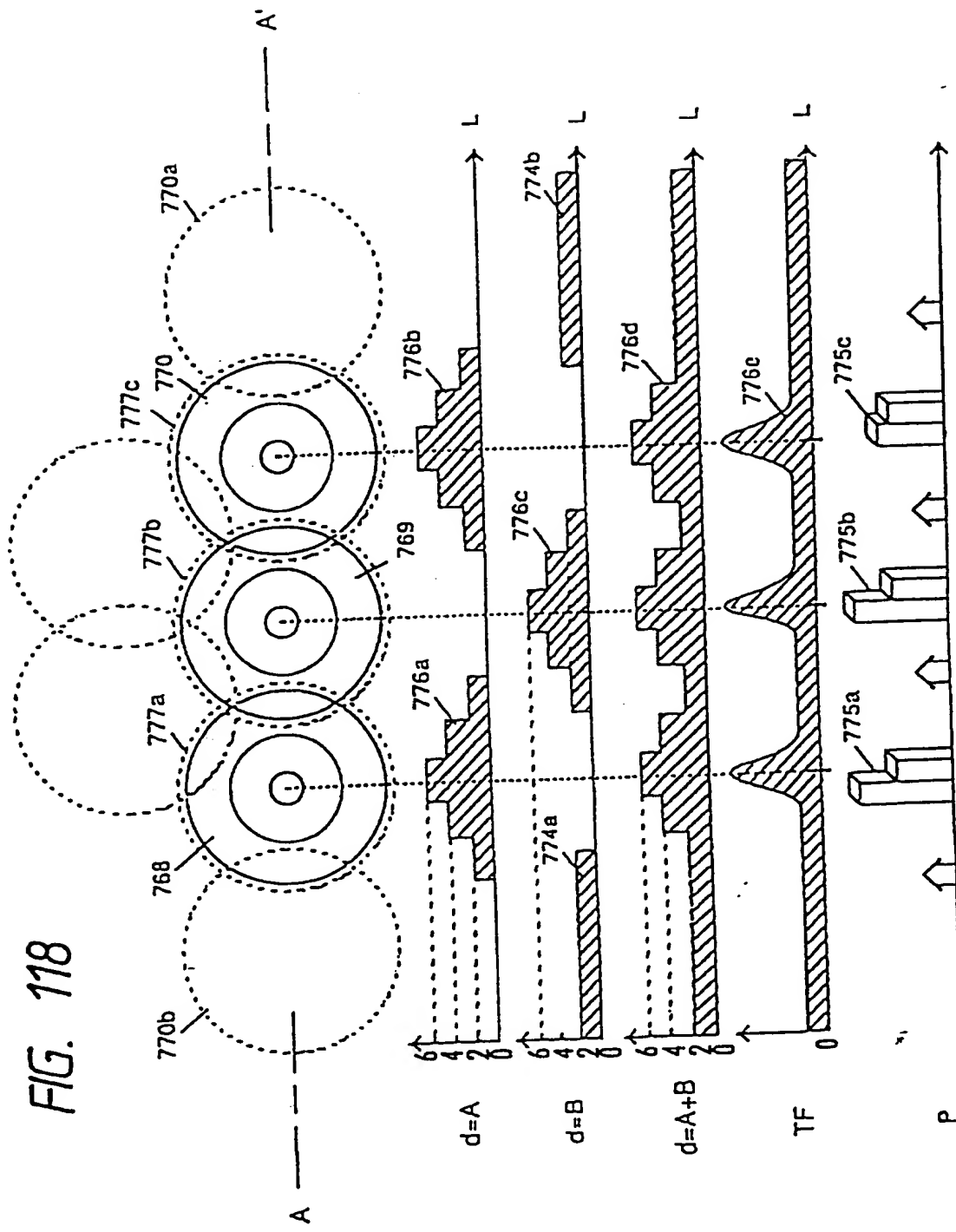


FIG. 119(a)

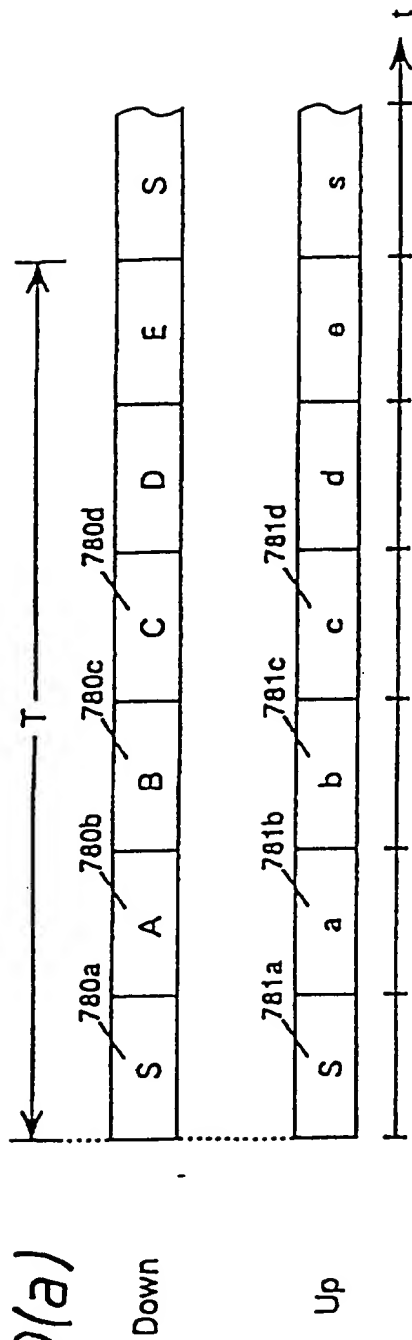


FIG. 119(b)

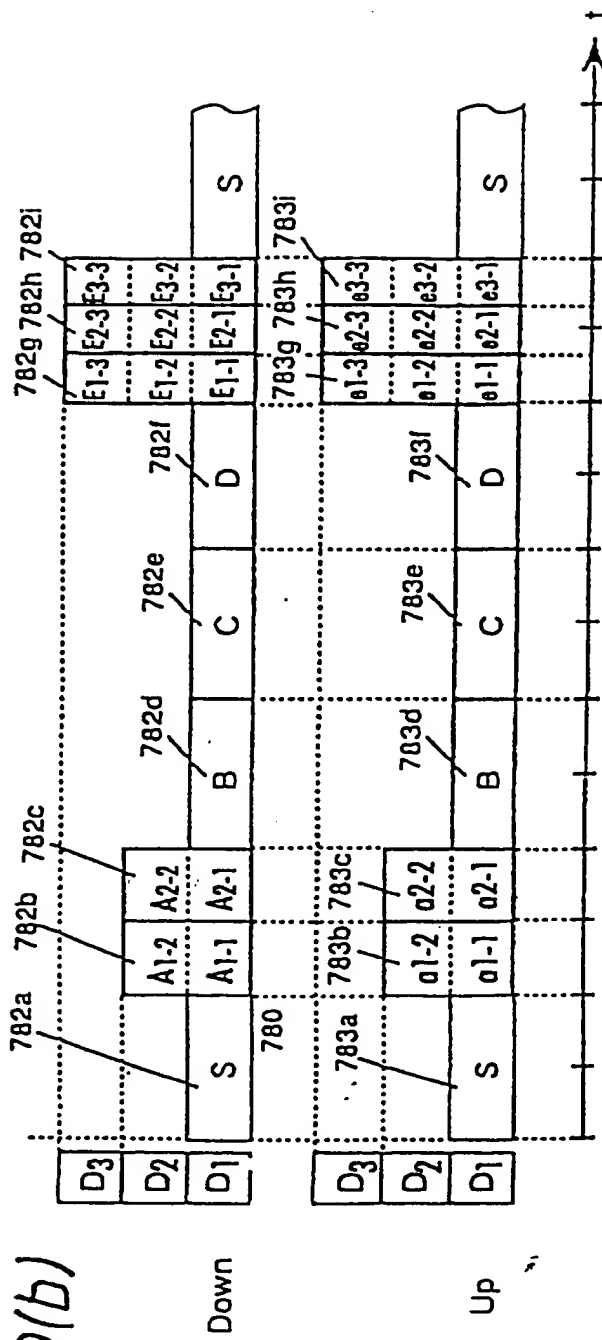


FIG. 120(a)

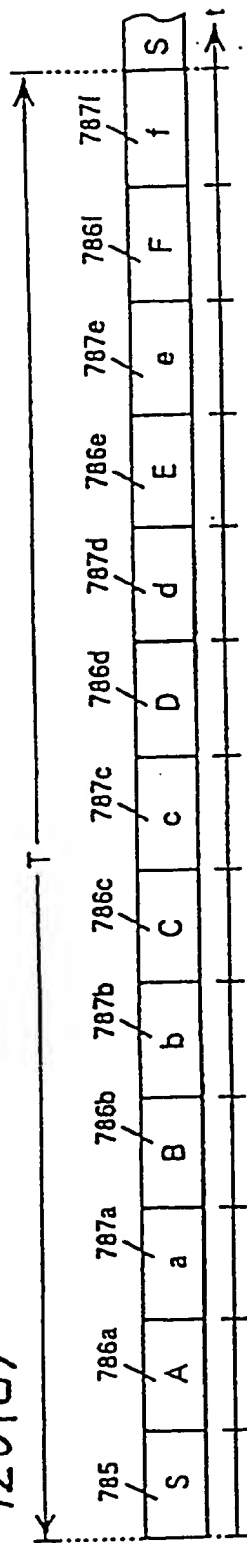


FIG. 120(b)

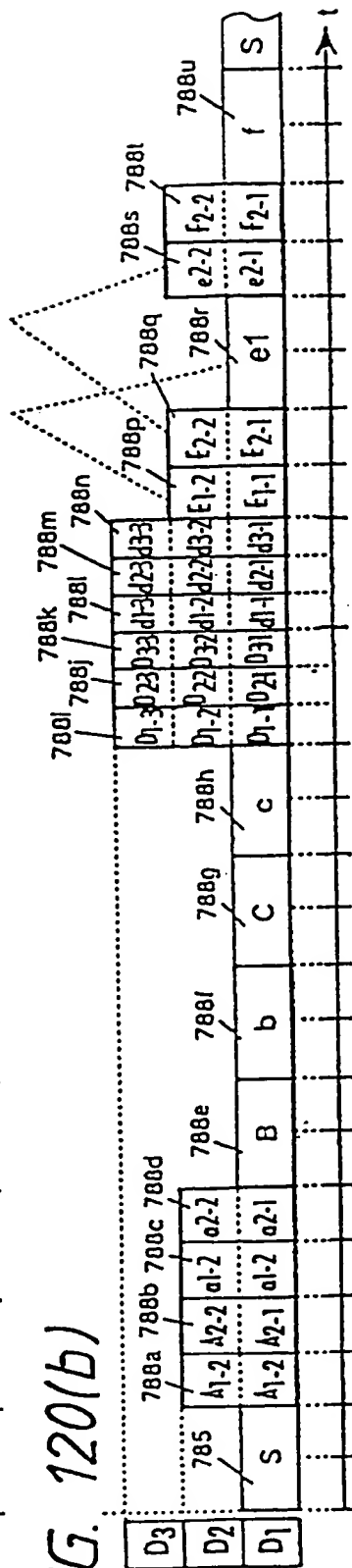




FIG. 121

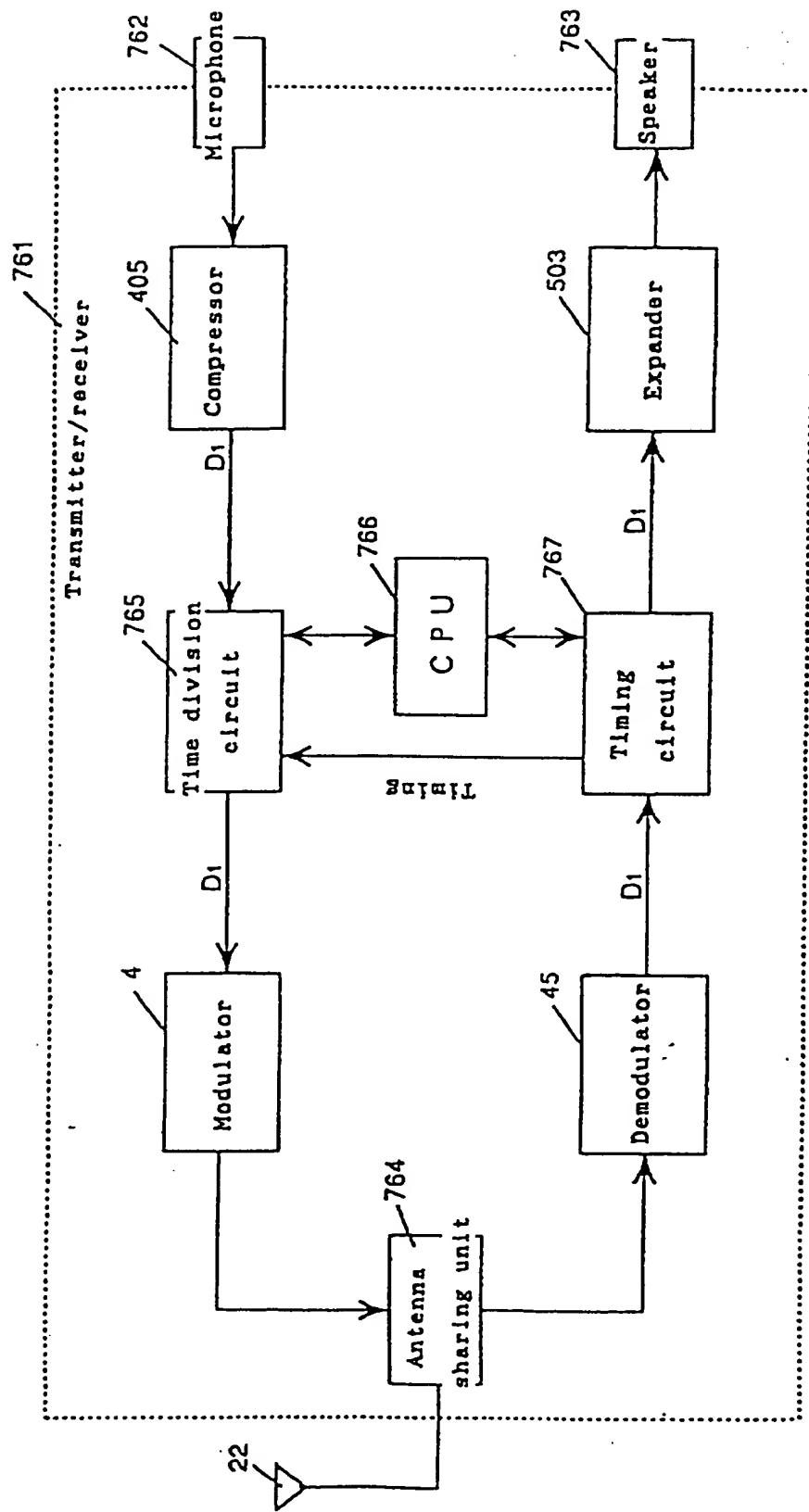


FIG. 122

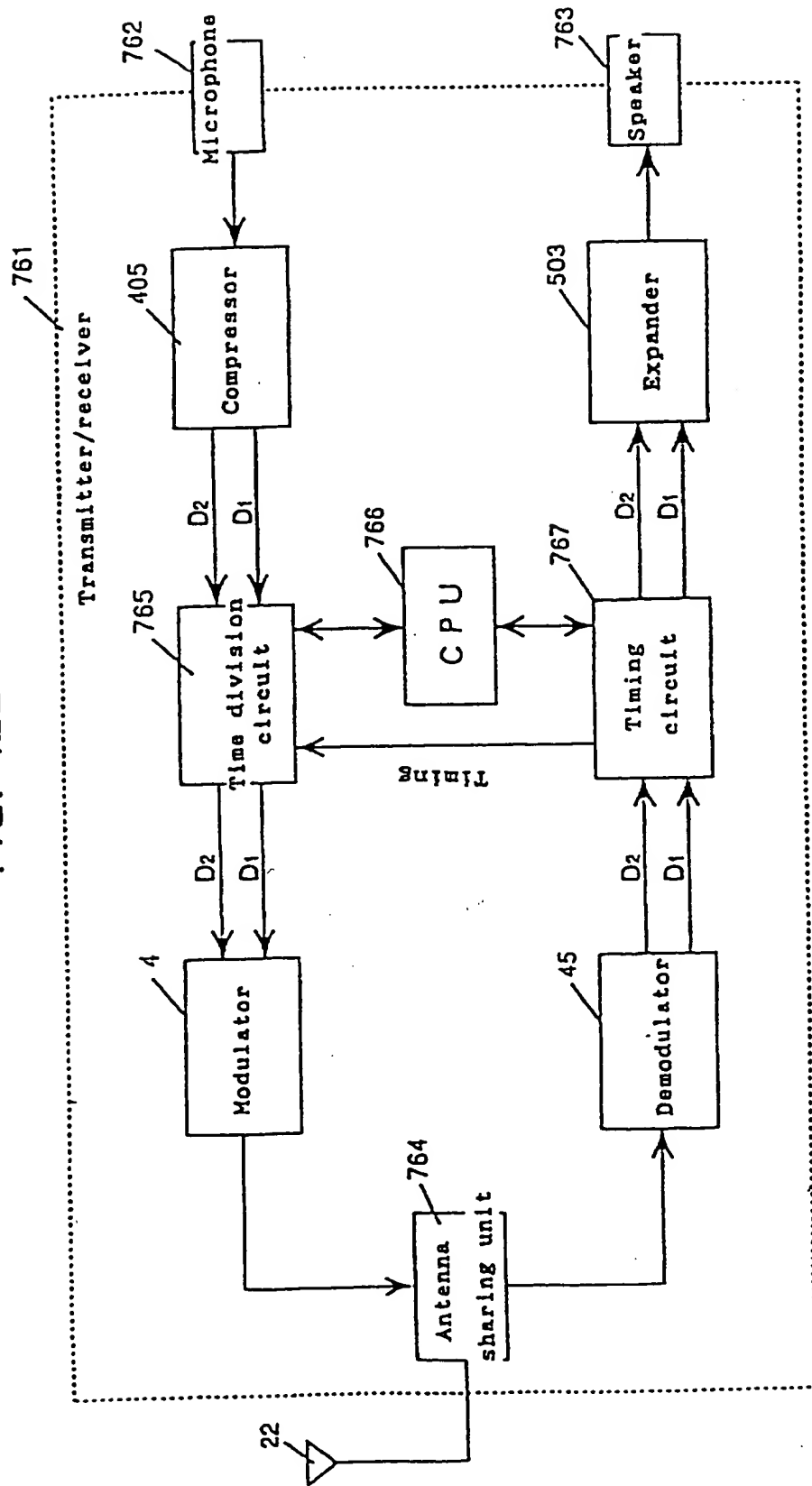


FIG. 123

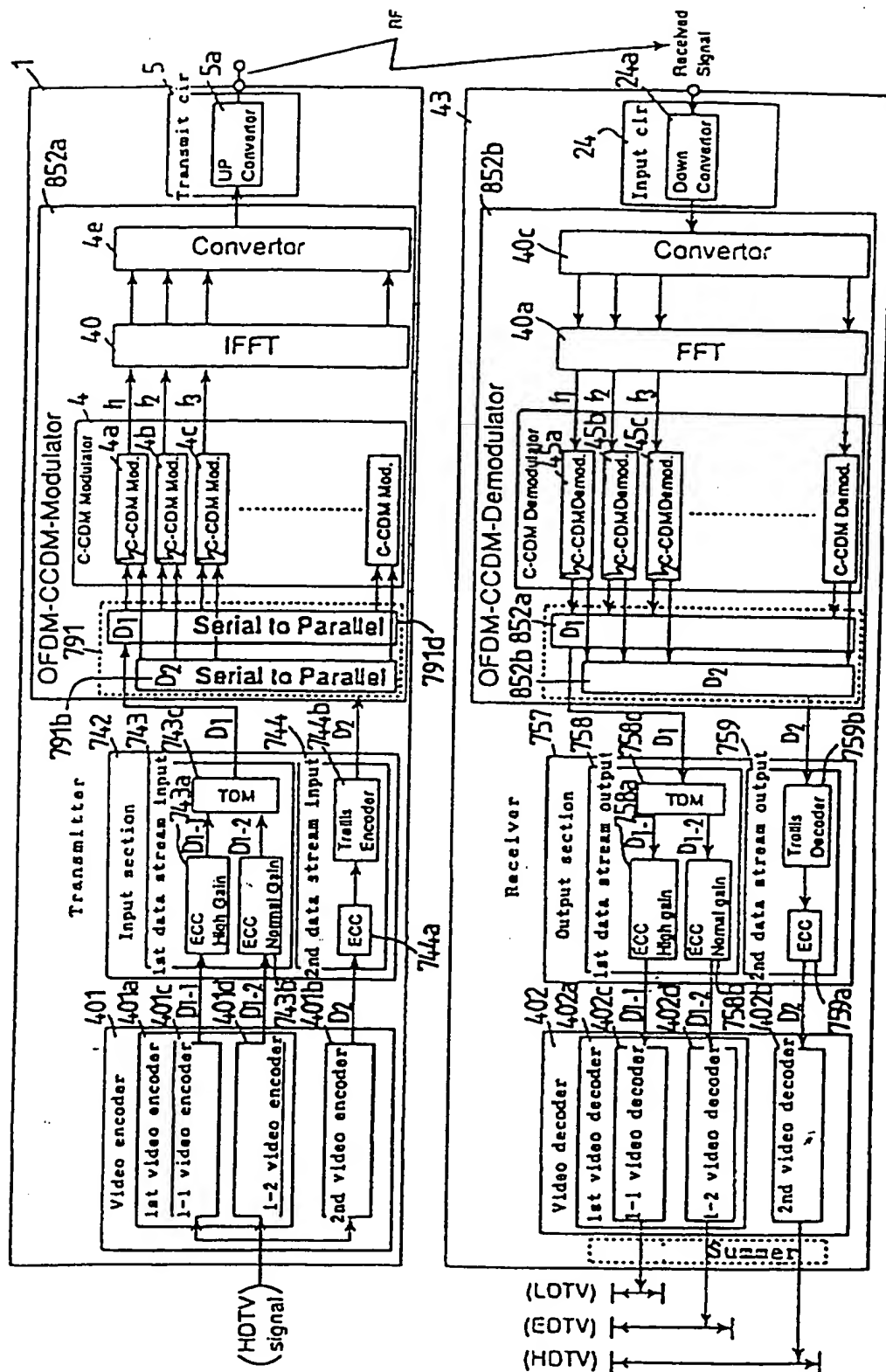


FIG. 124

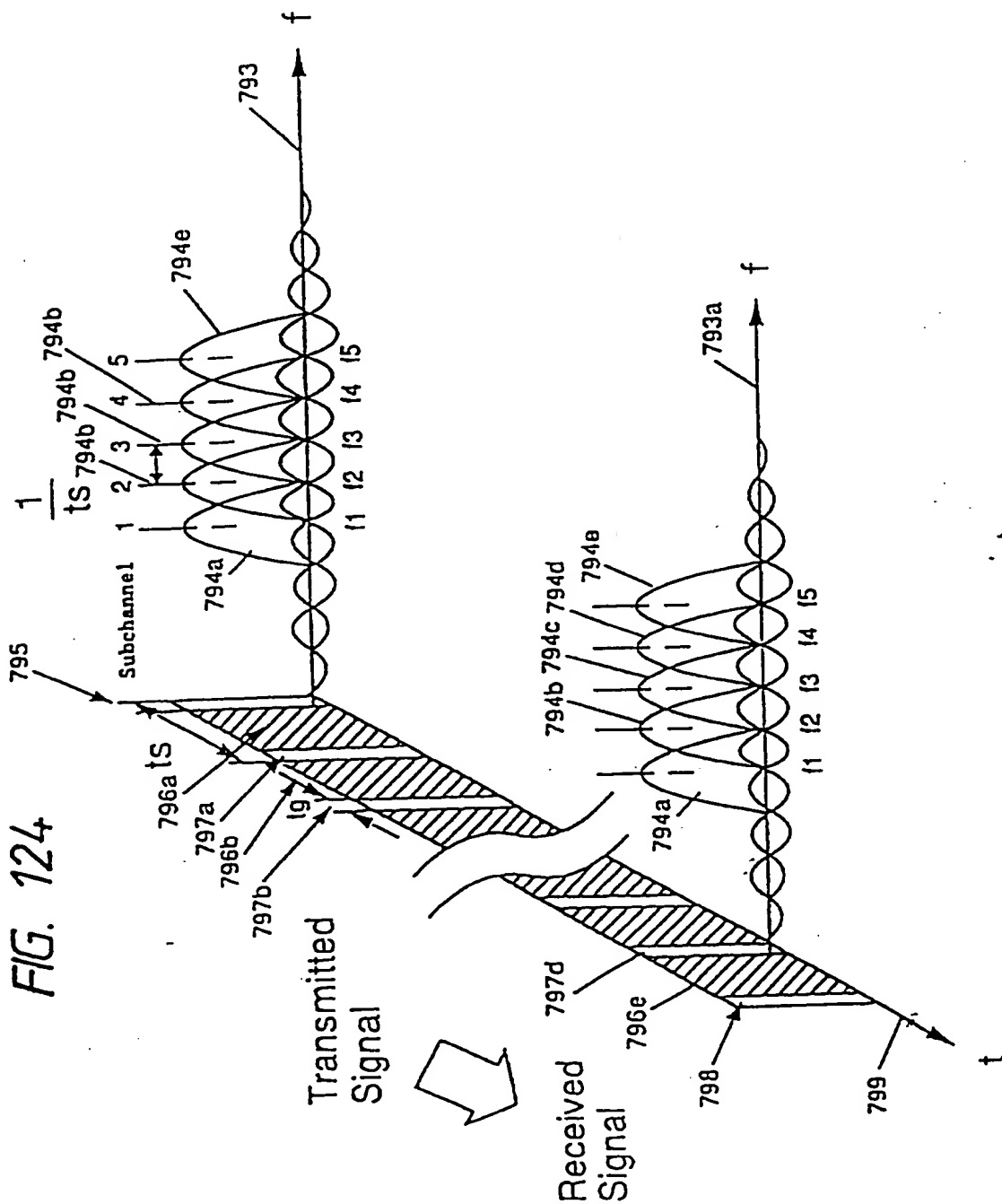


FIG. 125(a)

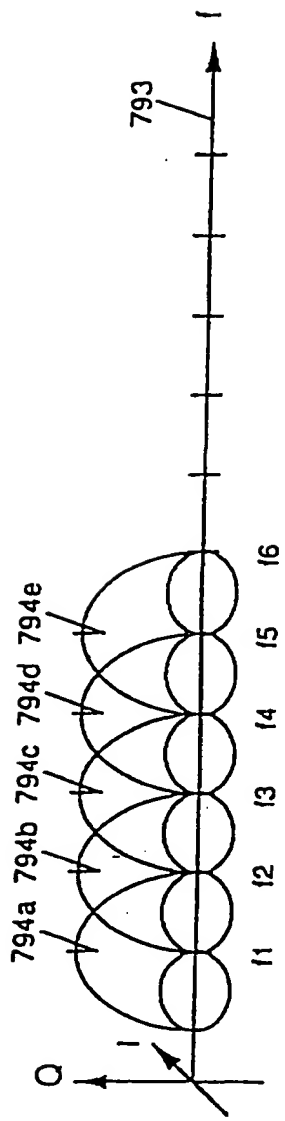
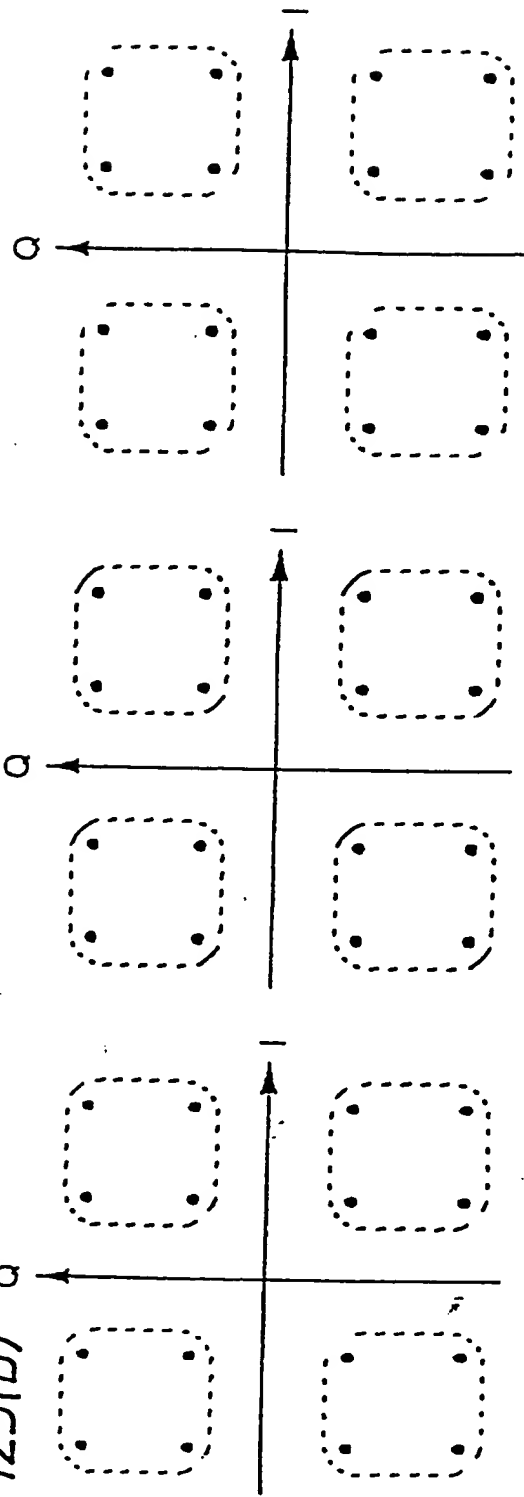


FIG. 125(b)



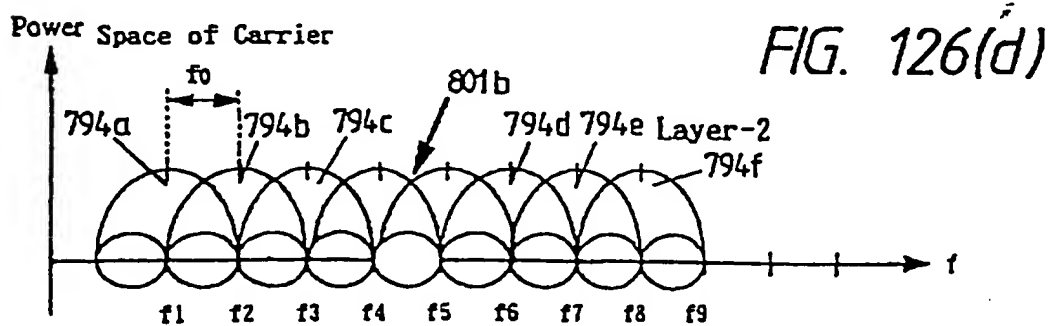
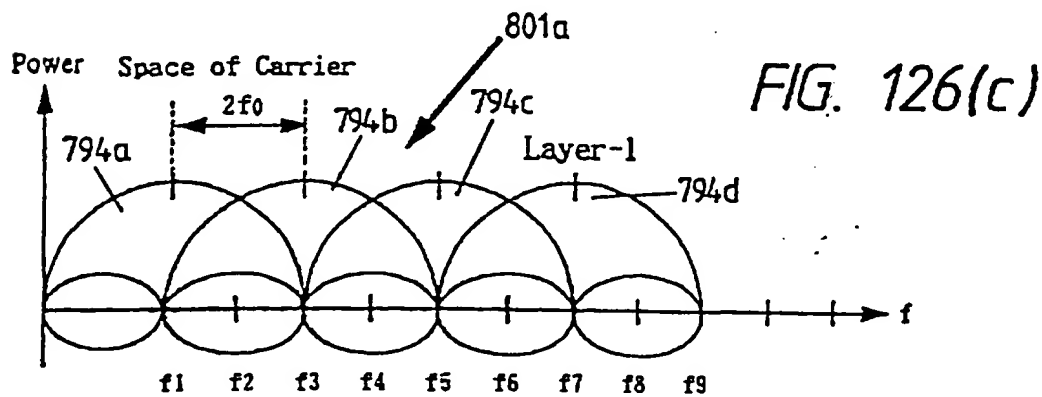
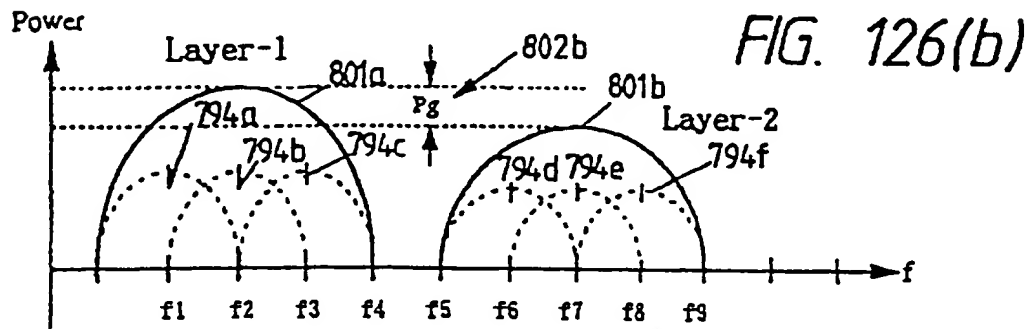
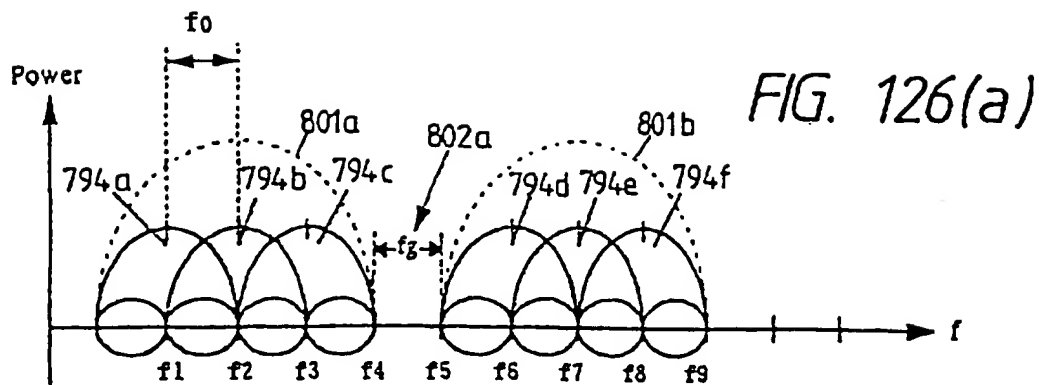


FIG. 127

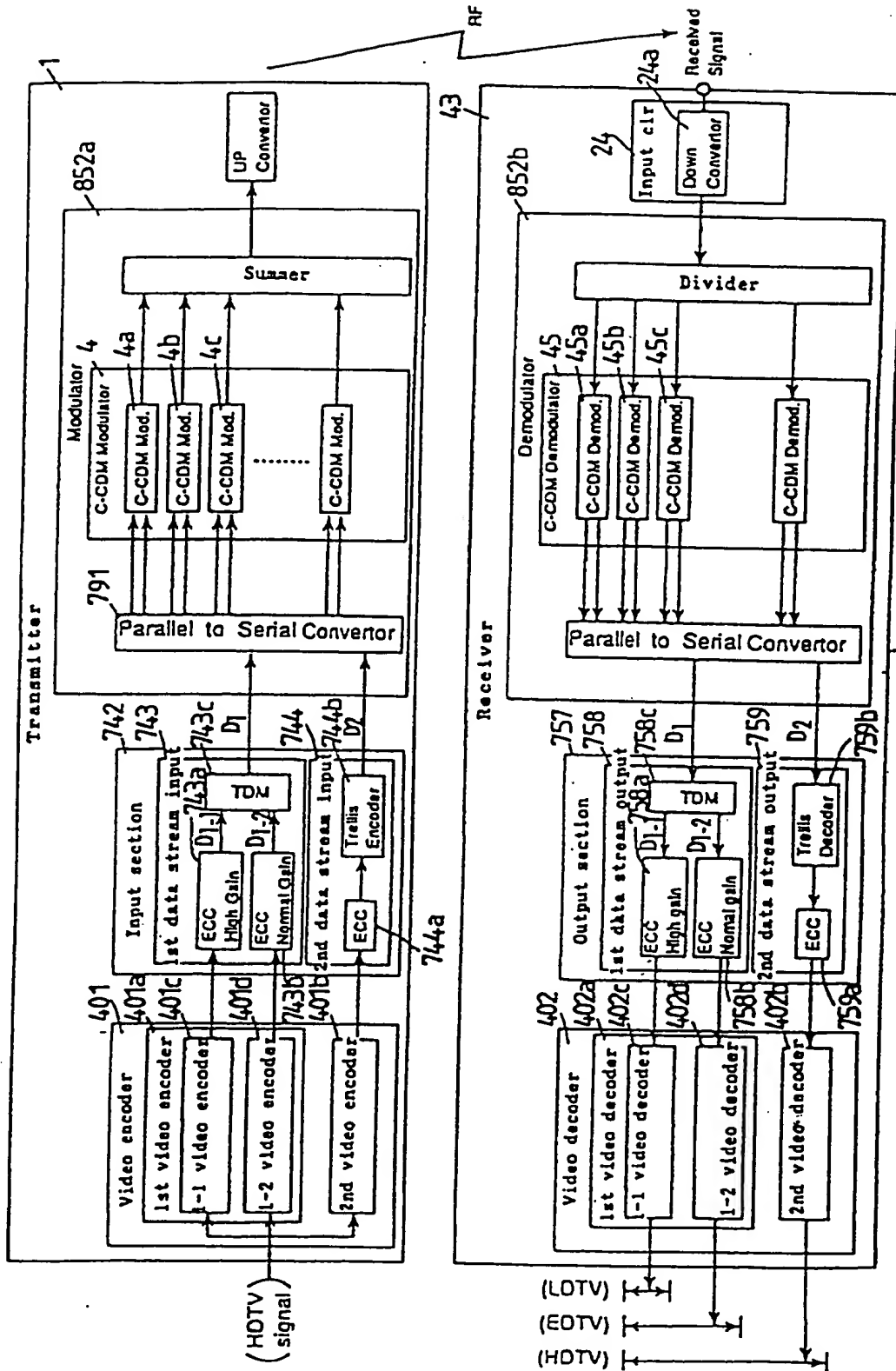


FIG. 128(a)

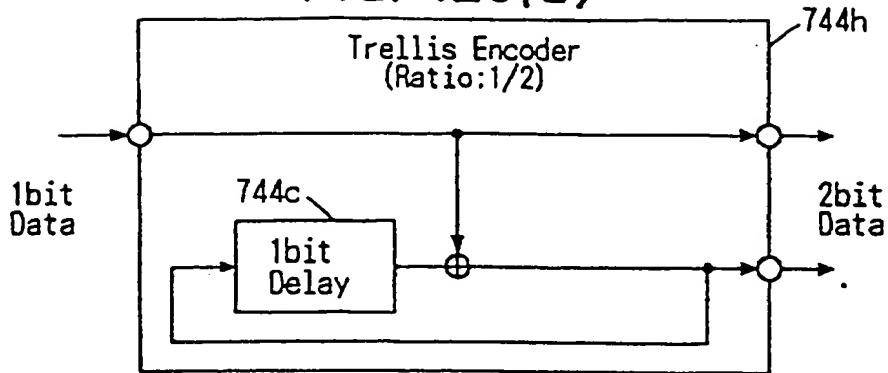


FIG. 128(b)

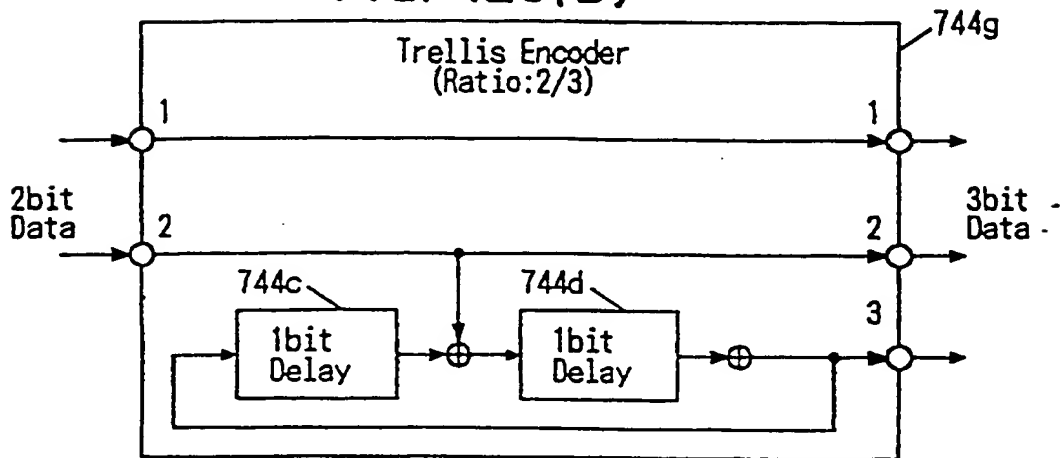


FIG. 128(c)

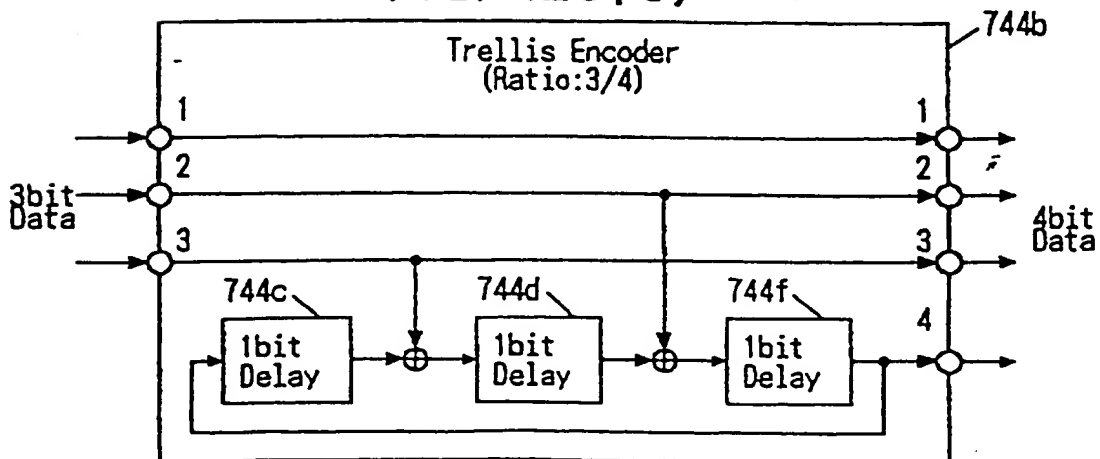




FIG. 128(d)

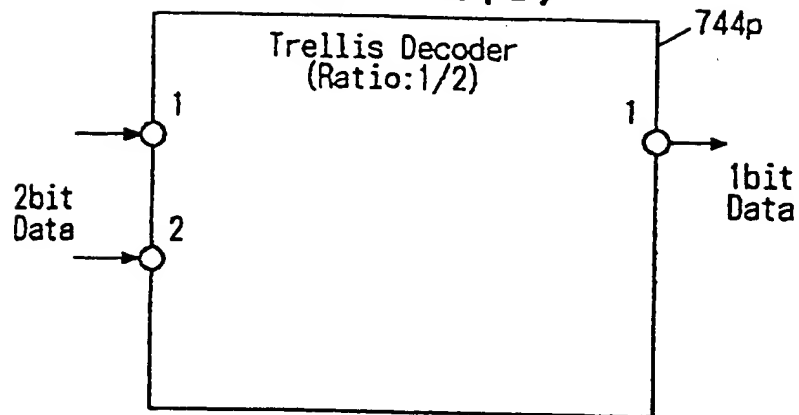


FIG. 128(e)

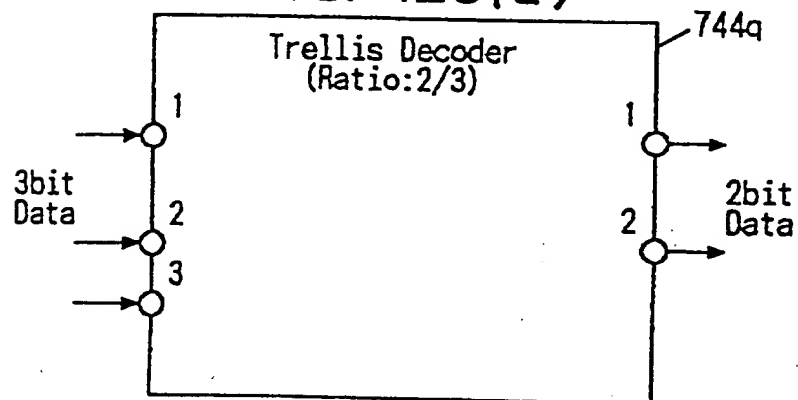


FIG. 128(f)

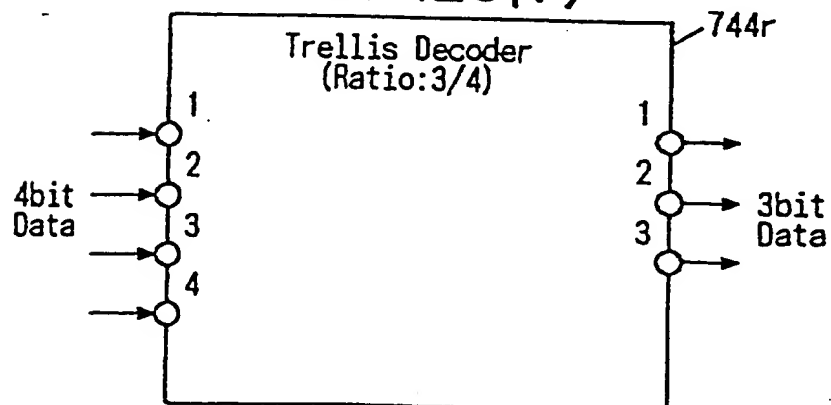


FIG. 129

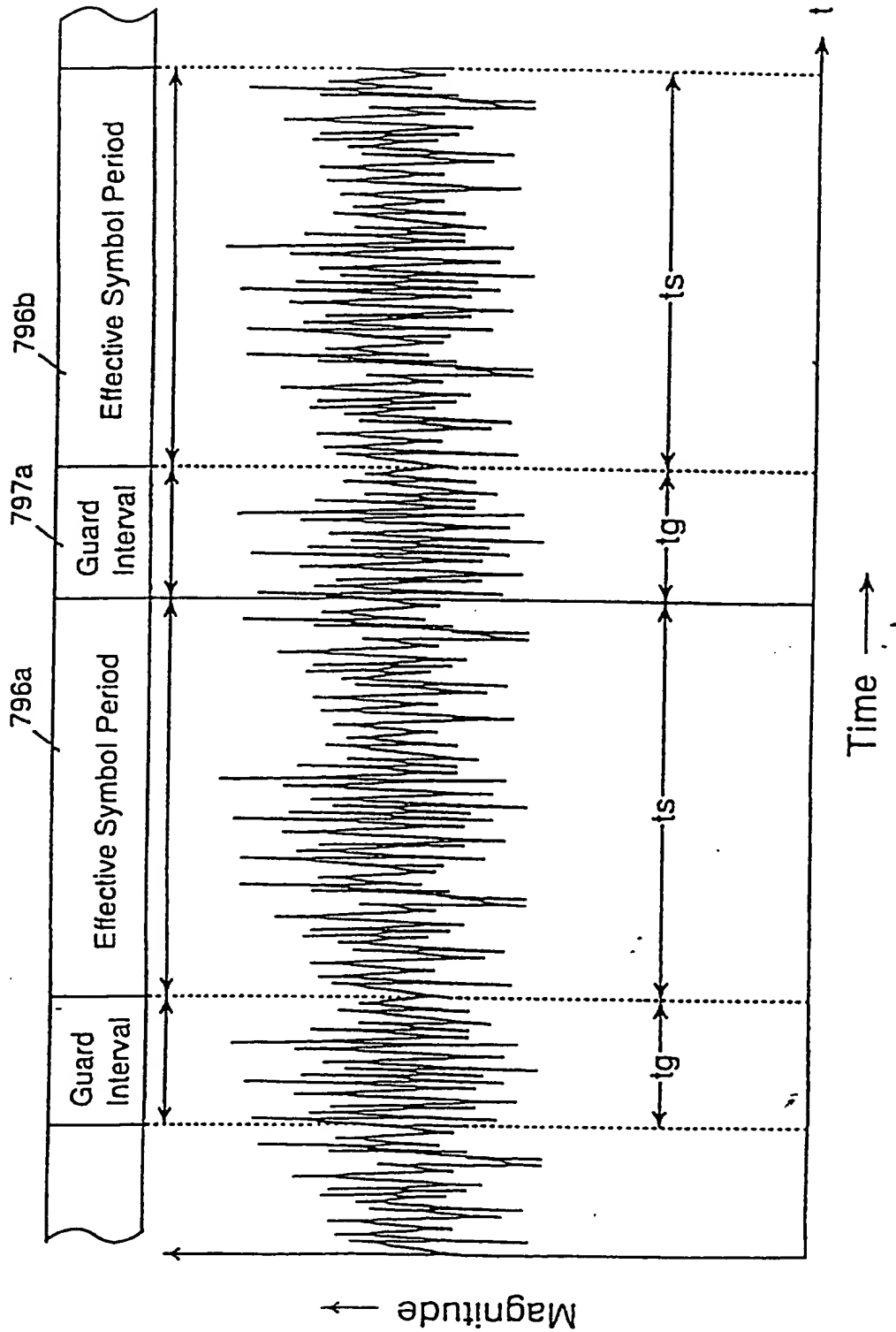
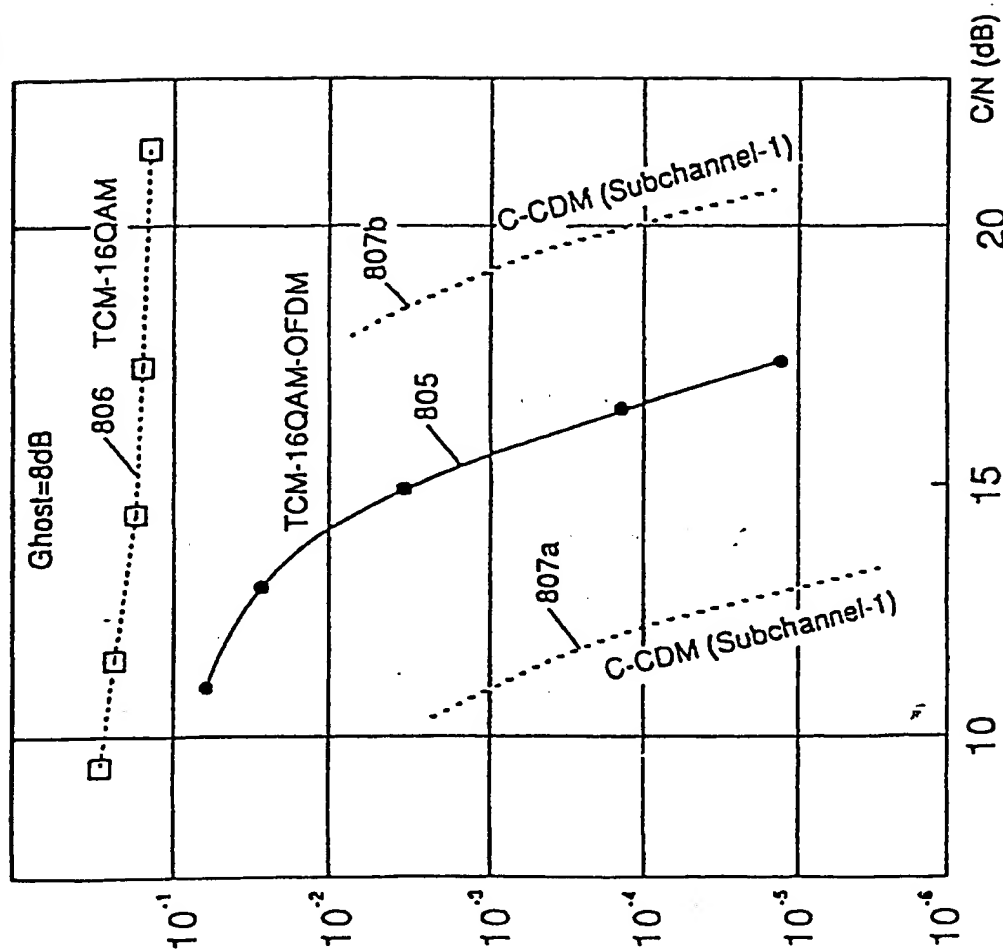


FIG. 130

GHOST DELAY-2 $\mu$ s. DU-8dB  
Figure 8 Bit Error Rate Performance Under Single Ghost  
and Gaussian Noise (1)



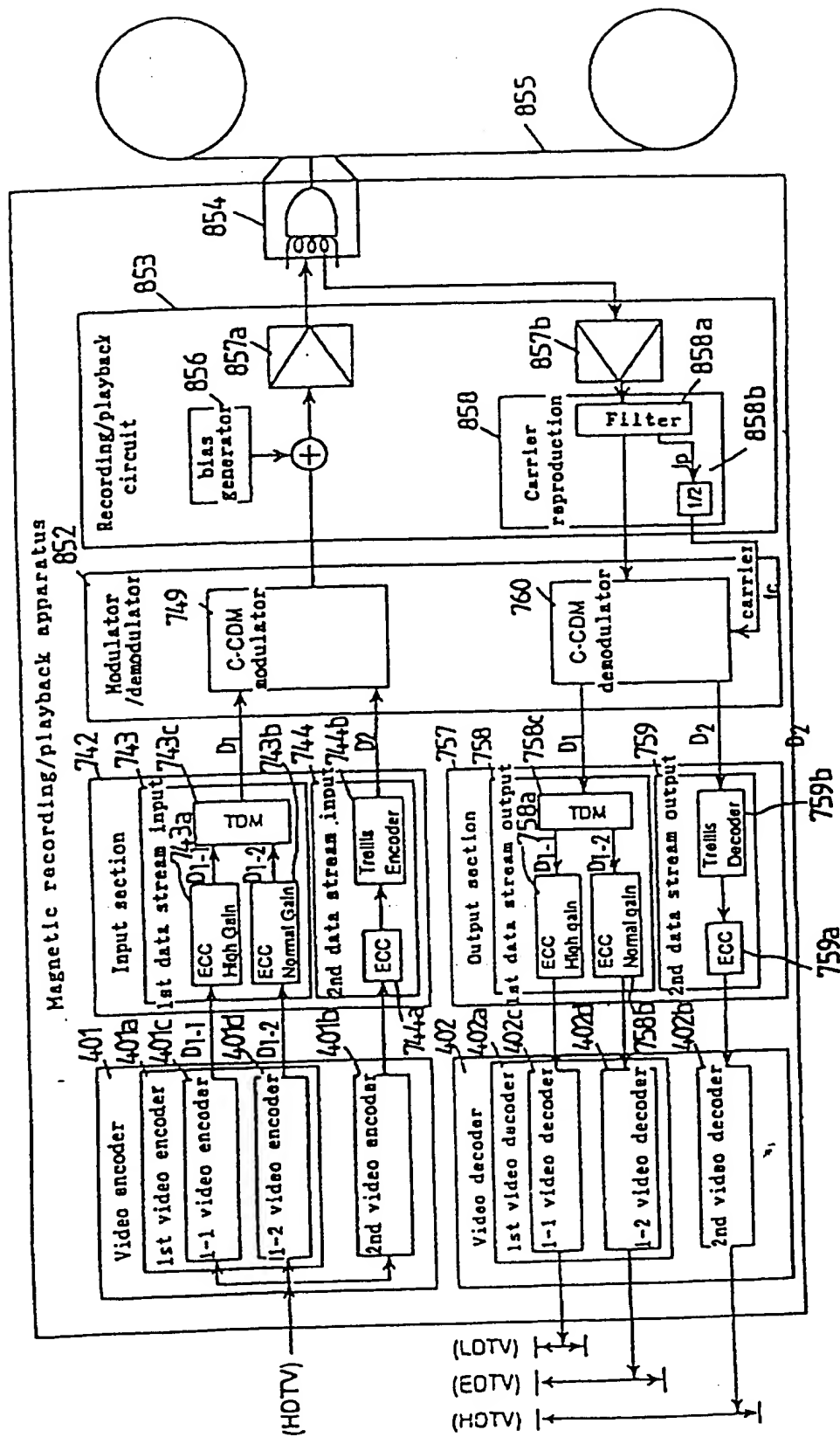




FIG. 133

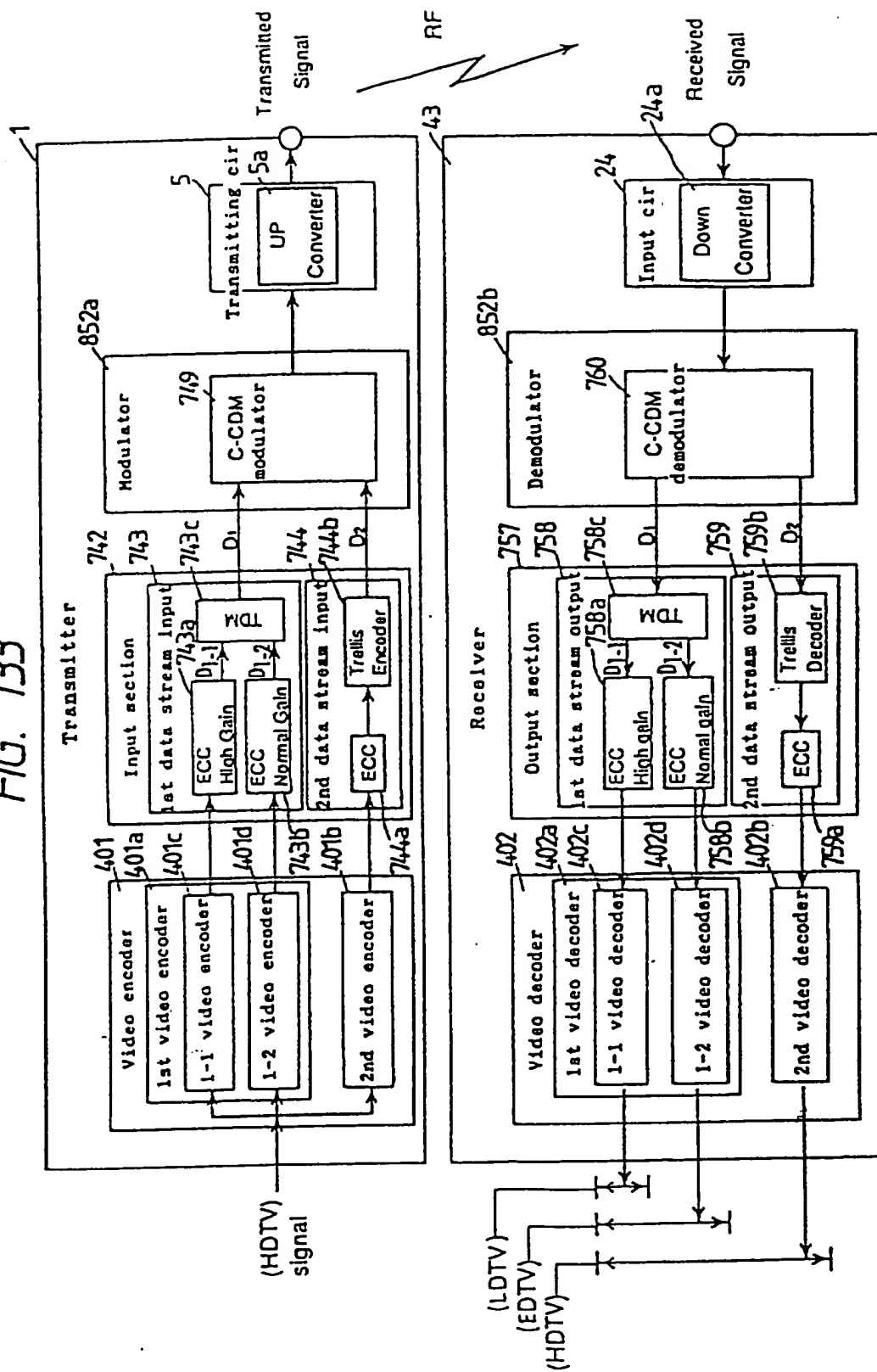


FIG. 134

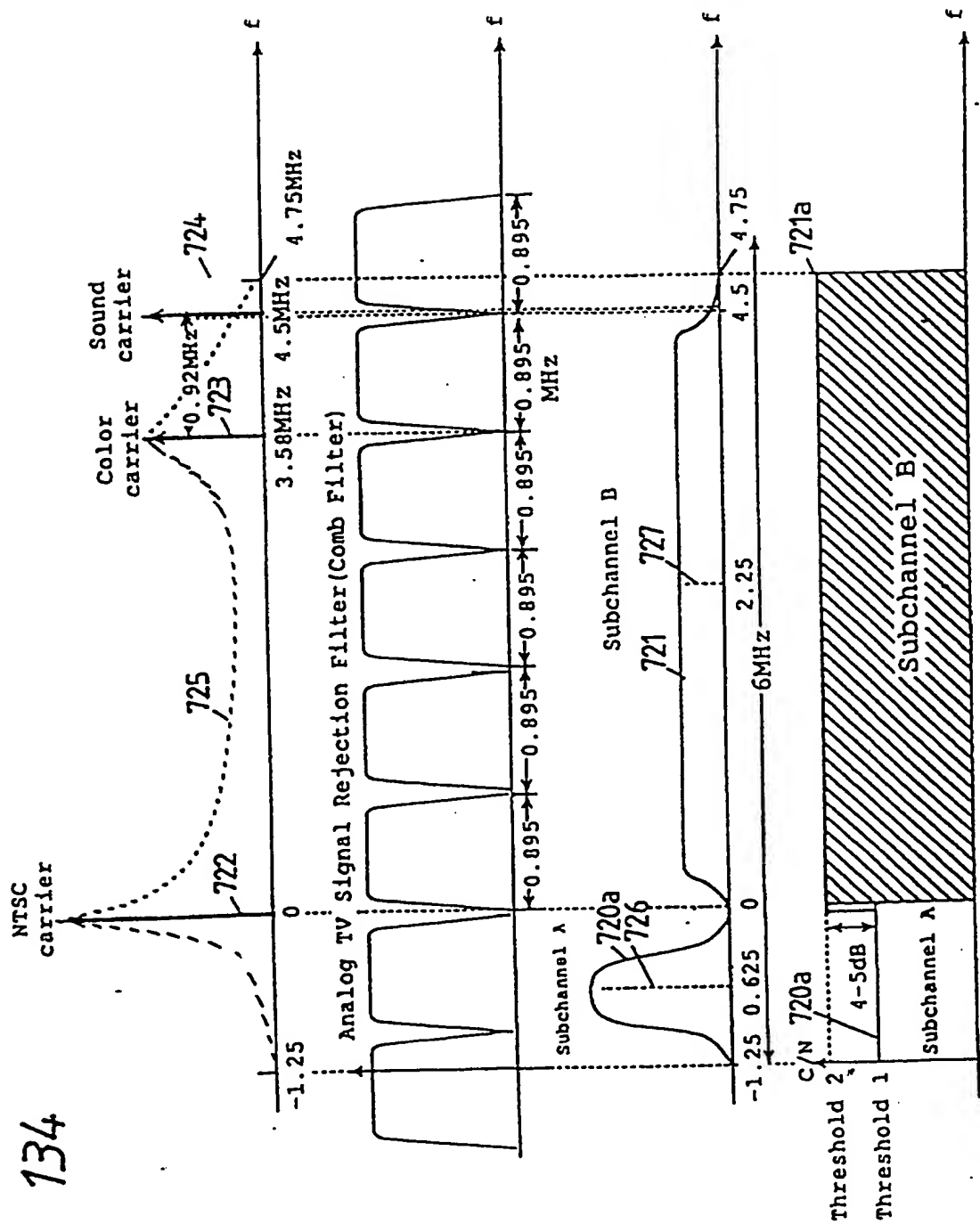


FIG. 135

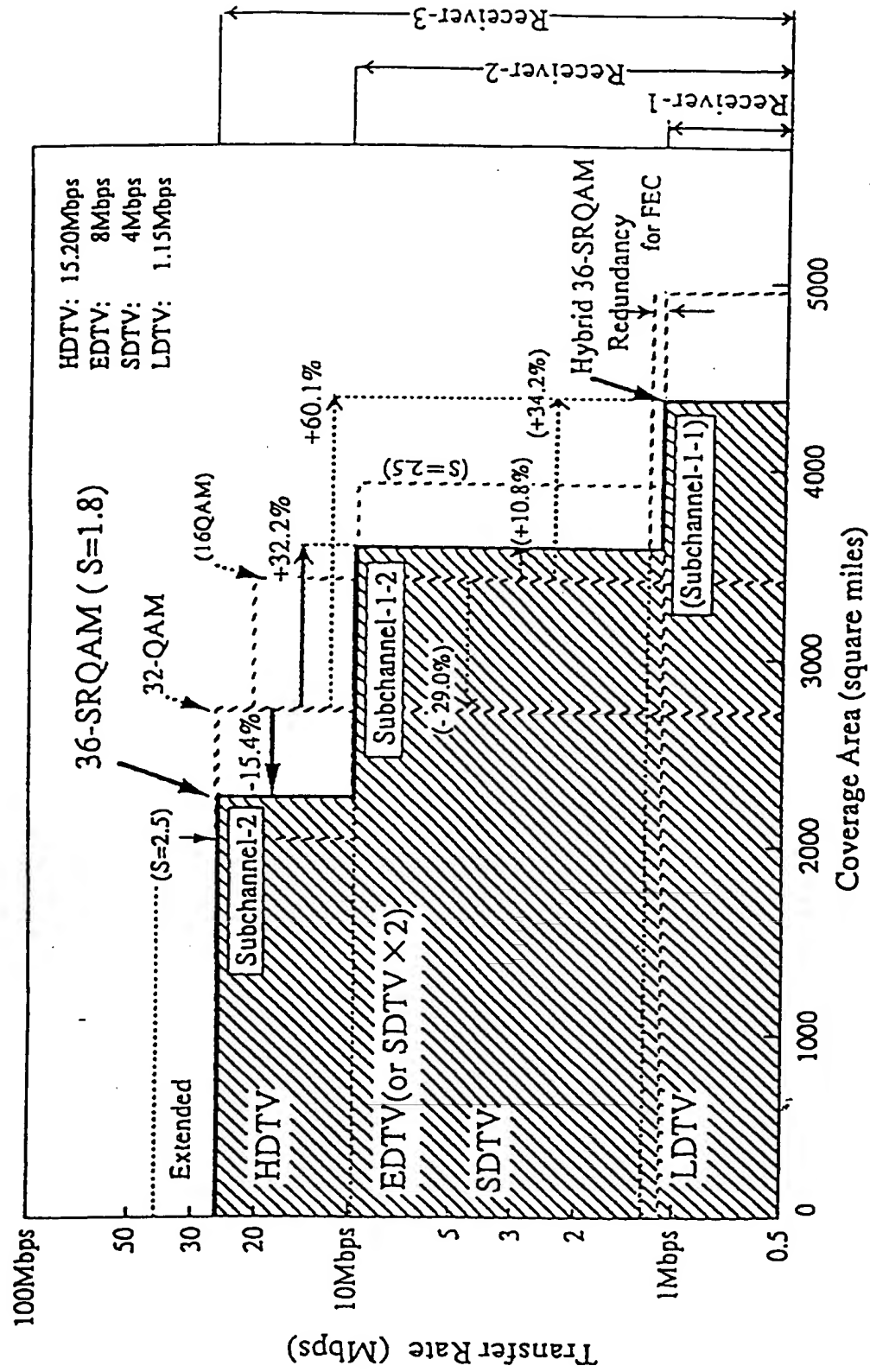




FIG. 136

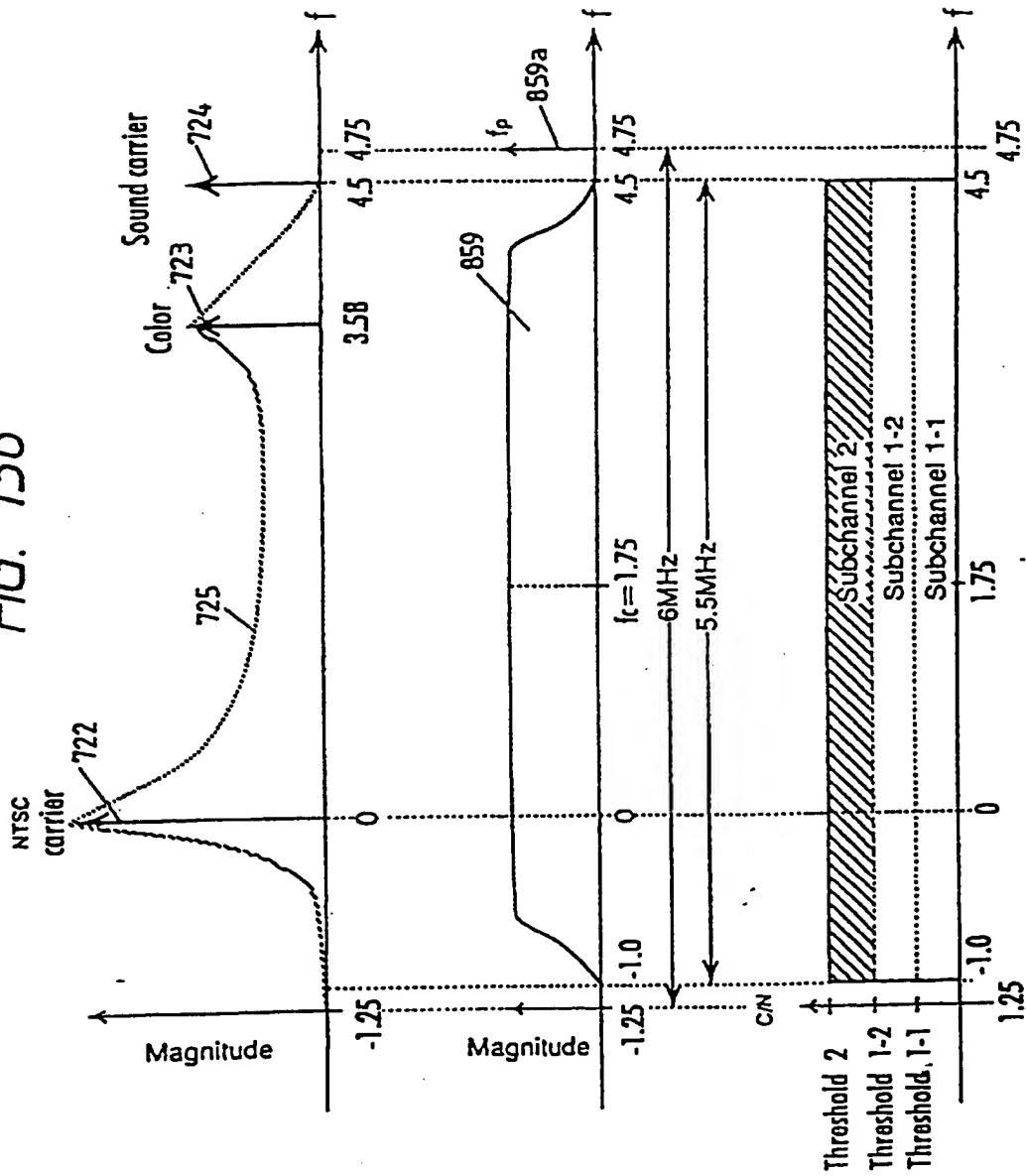


FIG. 137

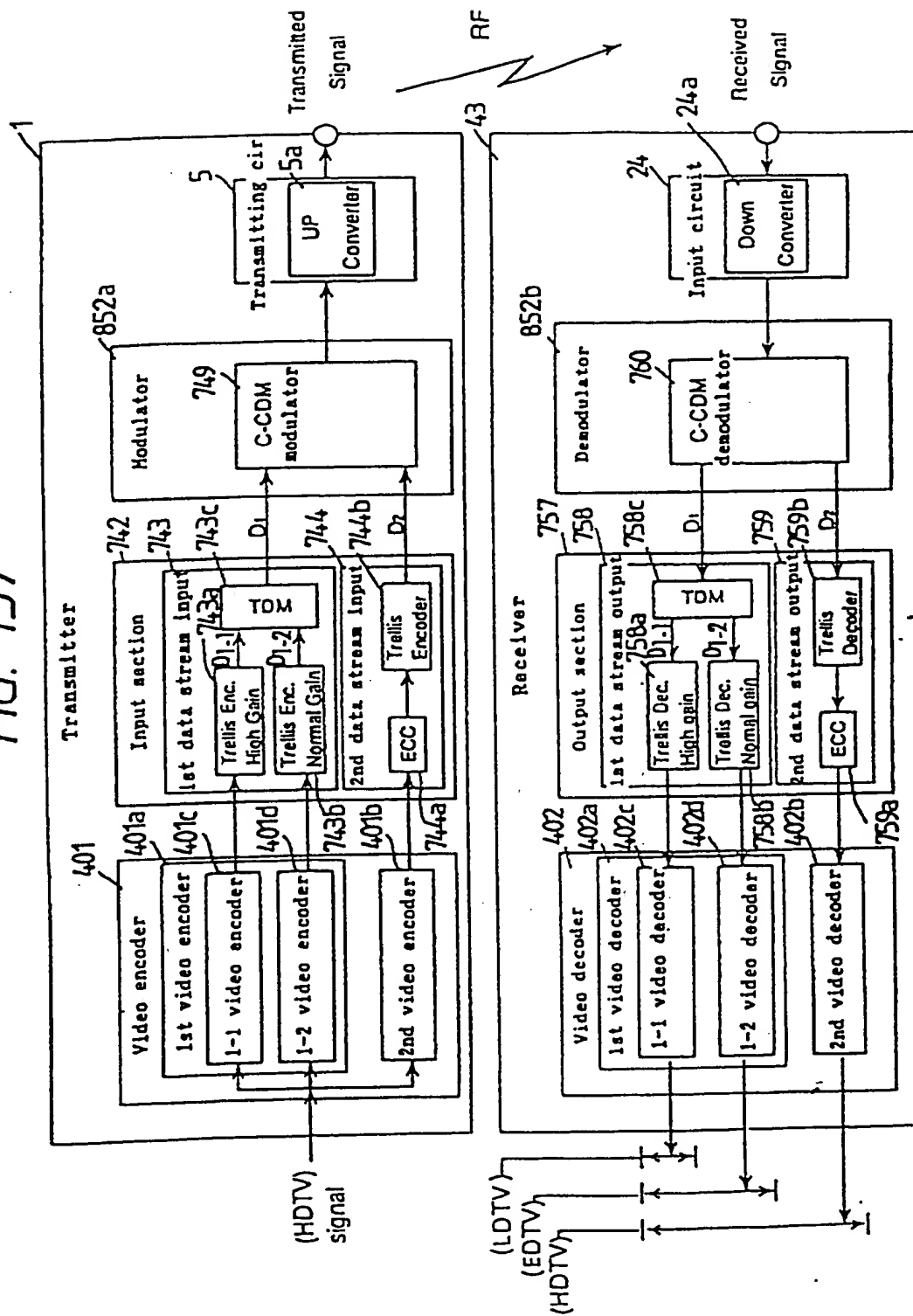


FIG. 138

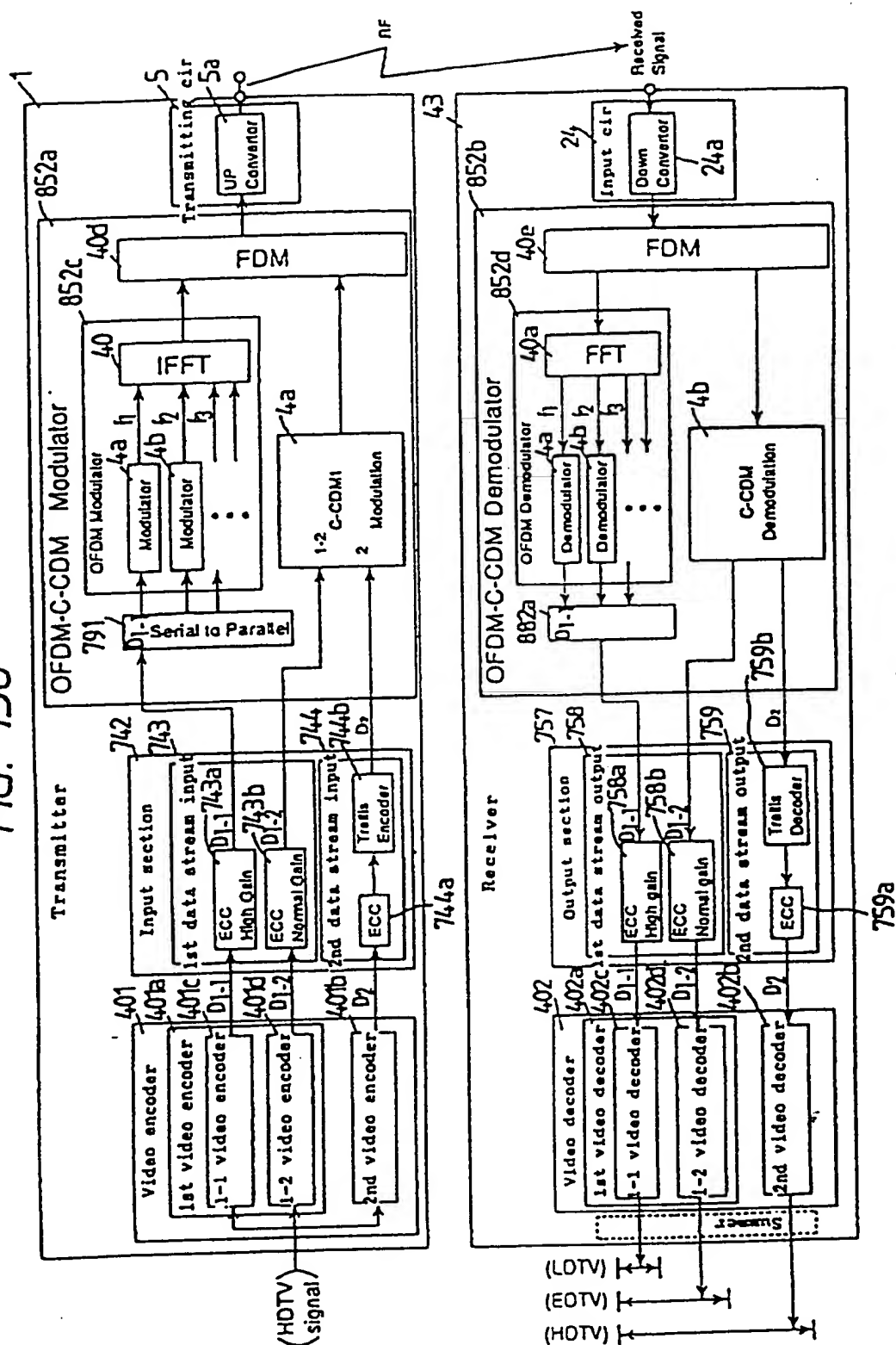


FIG. 139

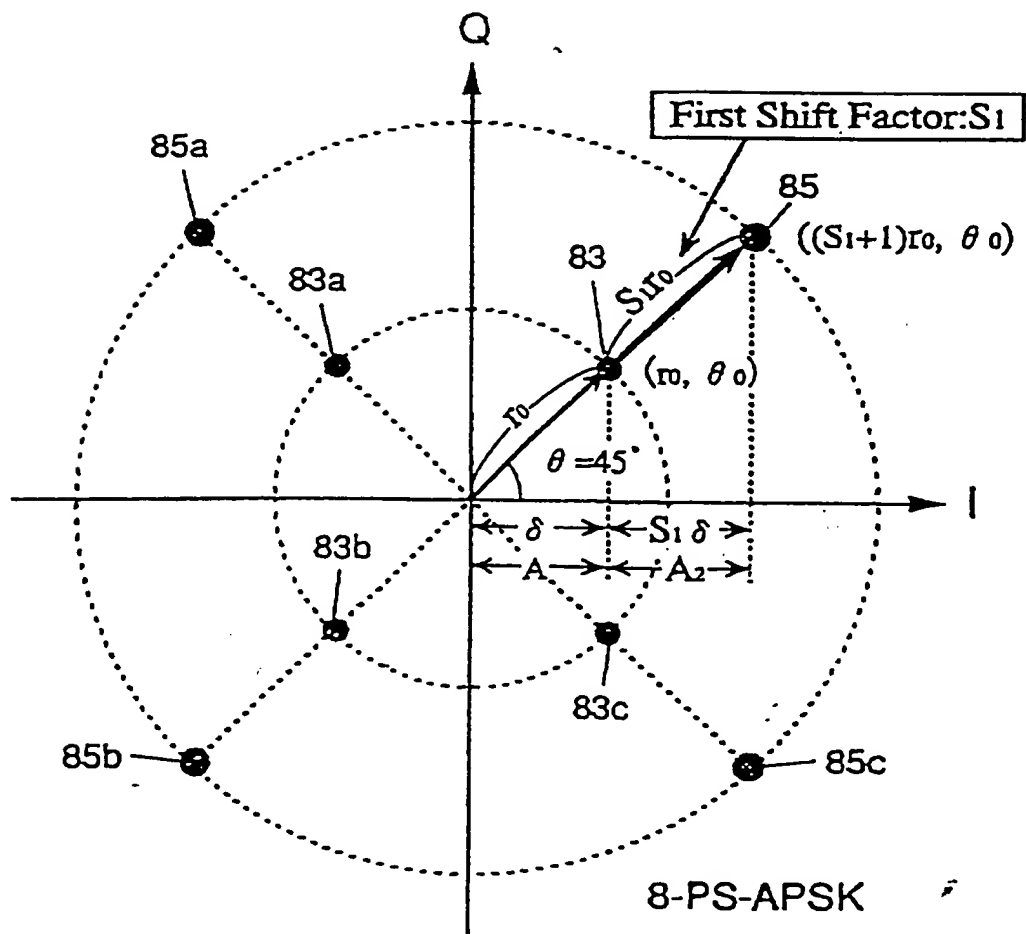


FIG. 140

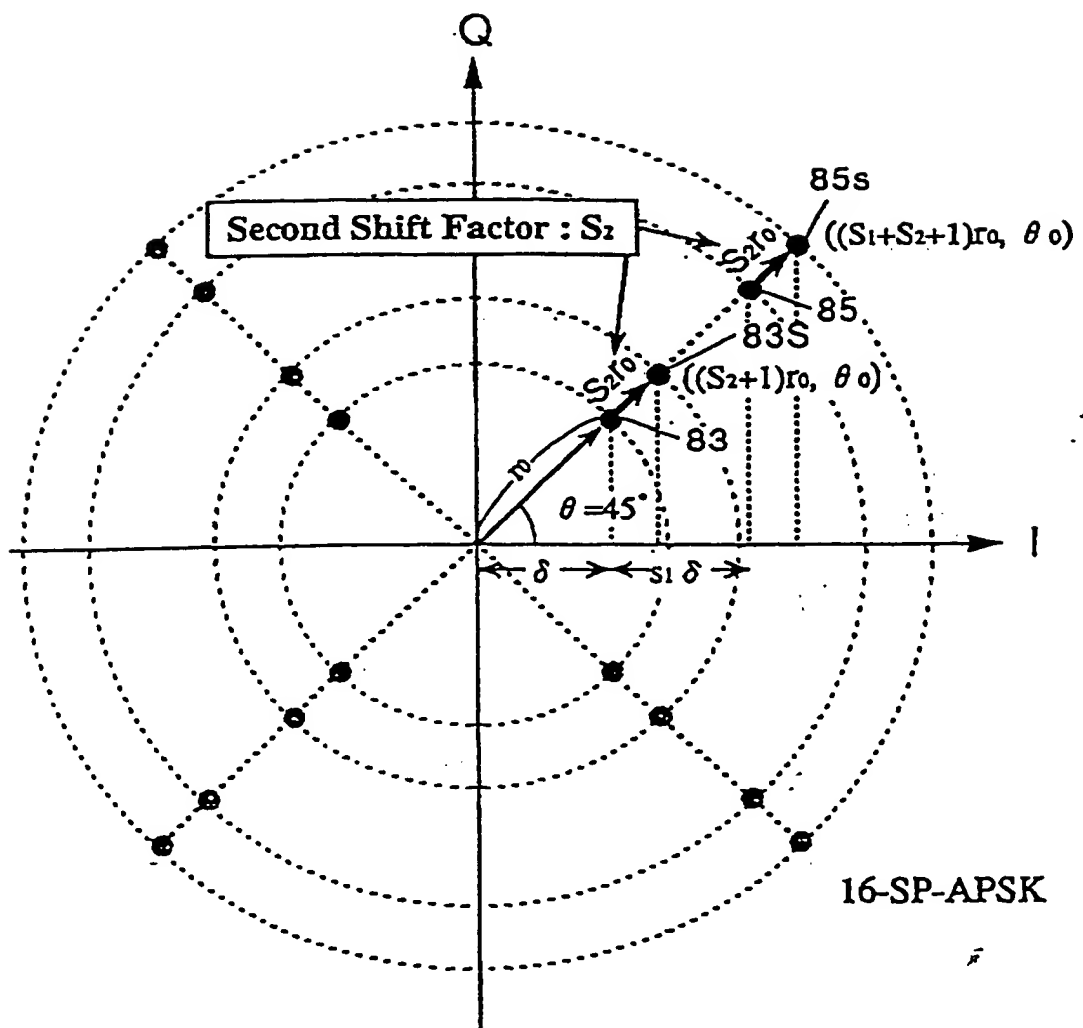


FIG. 141

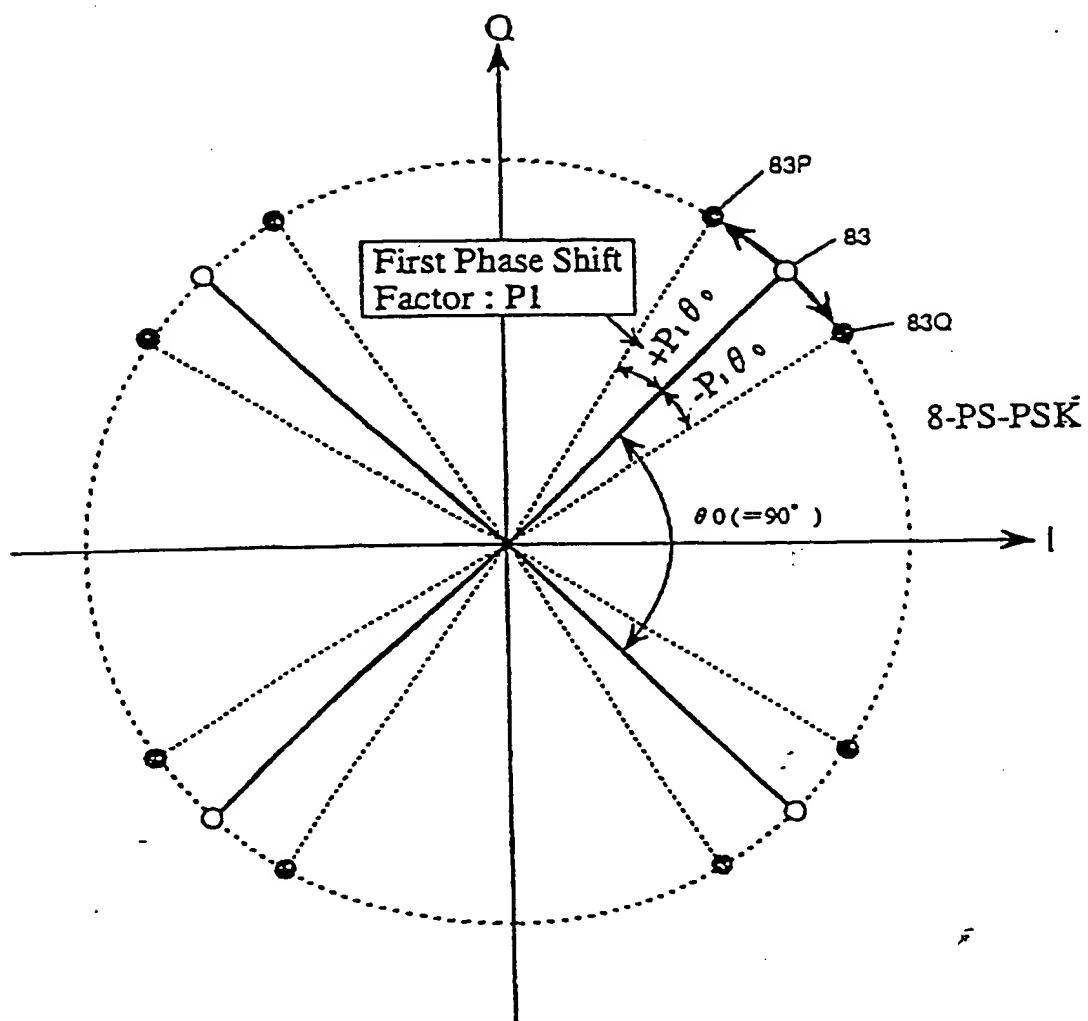


FIG. 142

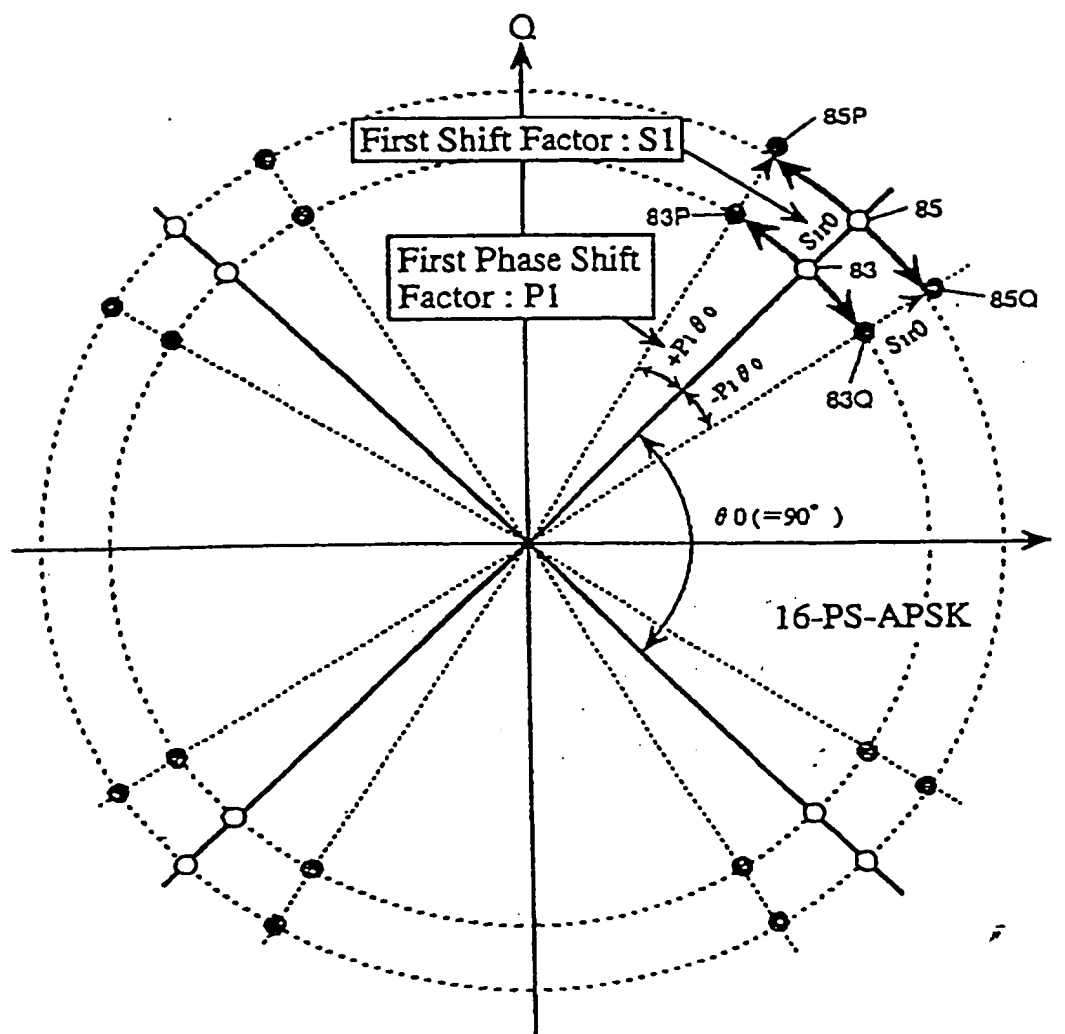


FIG. 143

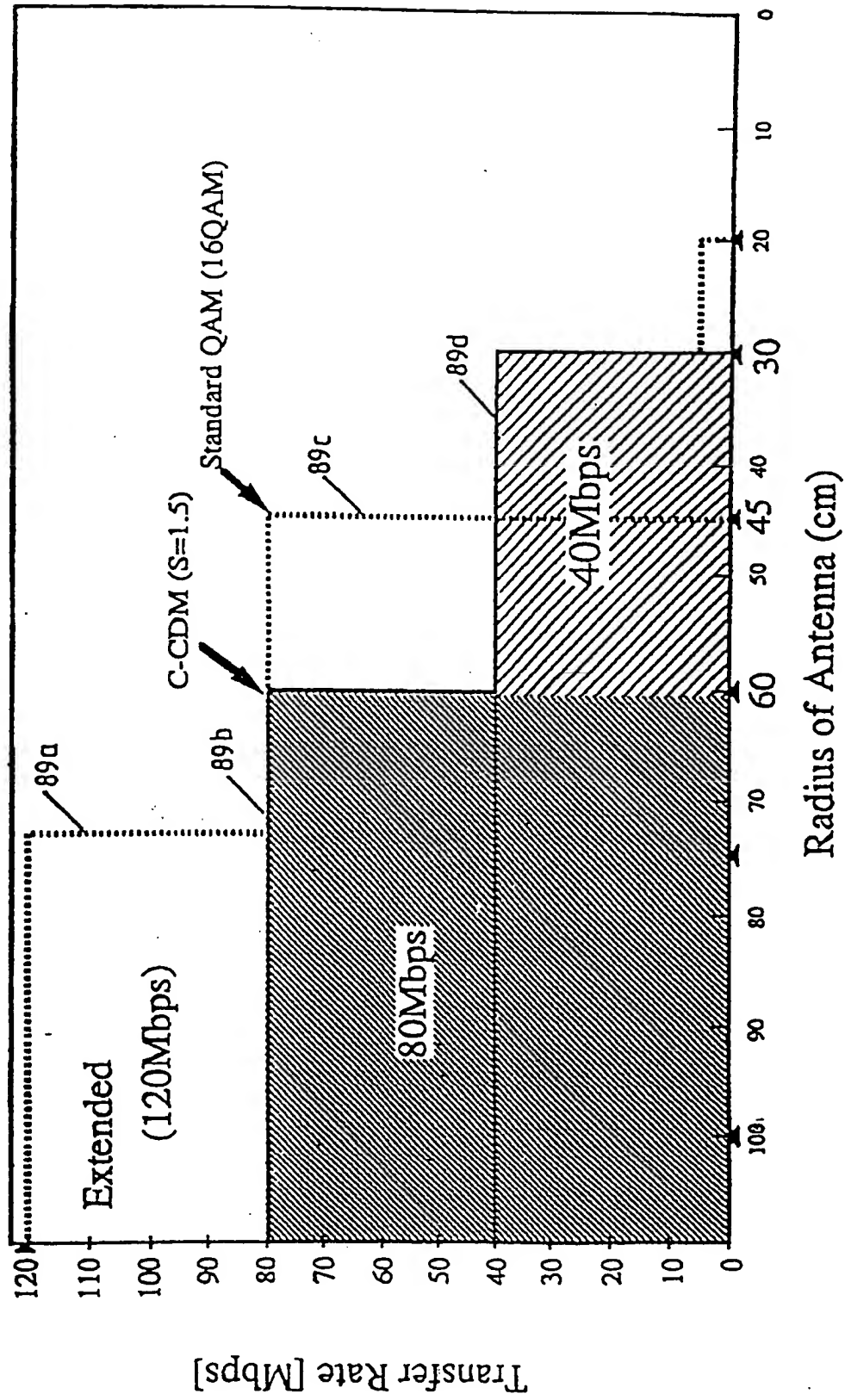
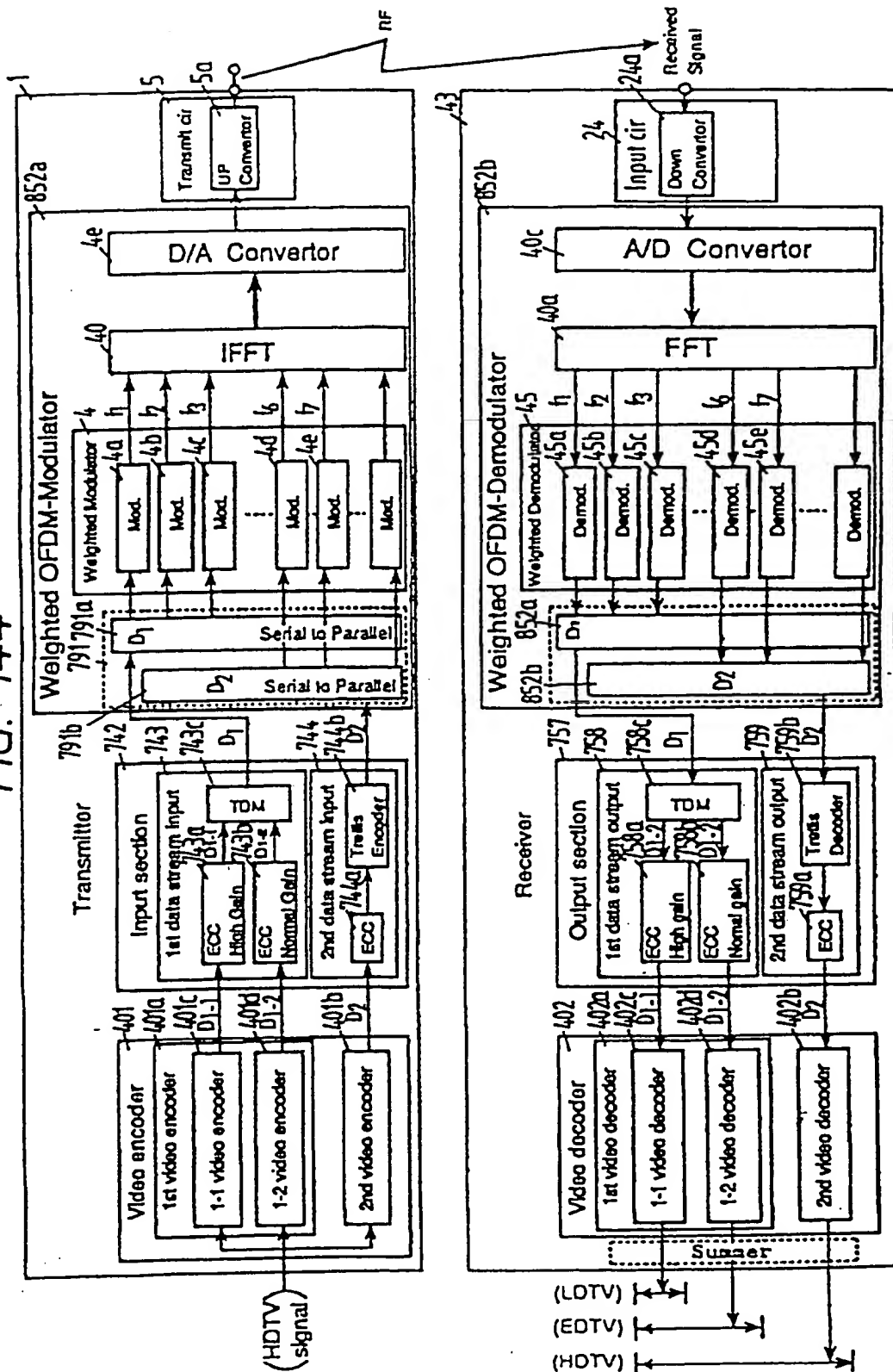




FIG. 144



The timing diagram shows a sequence of four pulses (810a, 810b, 810c, 810d) on a time axis  $t$ . Each pulse has a high level (797a, 797b) and a low level (796a, 796b). The duration of the high level is  $t_{ga}$  or  $t_{gb}$ , and the duration of the low level is  $t_{sa}$  or  $t_{sb}$ . The pulses are labeled 810a, 810b, 810c, and 810d. The high level is labeled 797a and 797b, and the low level is labeled 796a and 796b. The duration of the high level is labeled  $t_{ga}$  and  $t_{gb}$ , and the duration of the low level is labeled  $t_{sa}$  and  $t_{sb}$ . The pulses are labeled 810a, 810b, 810c, and 810d. The high level is labeled 797a and 797b, and the low level is labeled 796a and 796b. The duration of the high level is labeled  $t_{ga}$  and  $t_{gb}$ , and the duration of the low level is labeled  $t_{sa}$  and  $t_{sb}$ .

Timing diagram 811b shows a sequence of signals over time  $t$ . The signals are  $t_{ga}$ ,  $t_{sa}$ ,  $t_{gb}$ , and  $t_{sb}$ . The diagram includes shaded regions labeled A and B, and specific time intervals labeled 797a, 796a, 797b, and 796b.



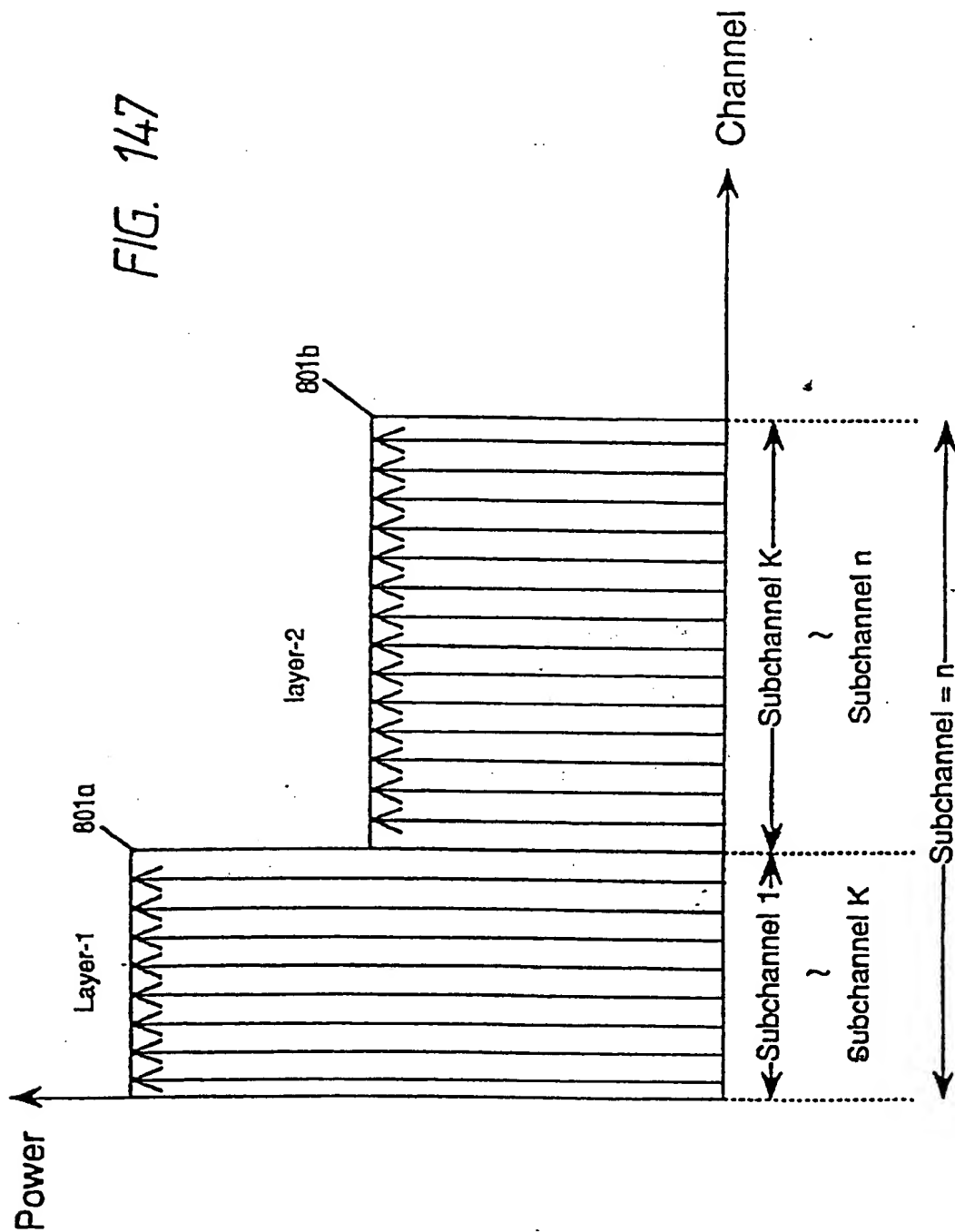
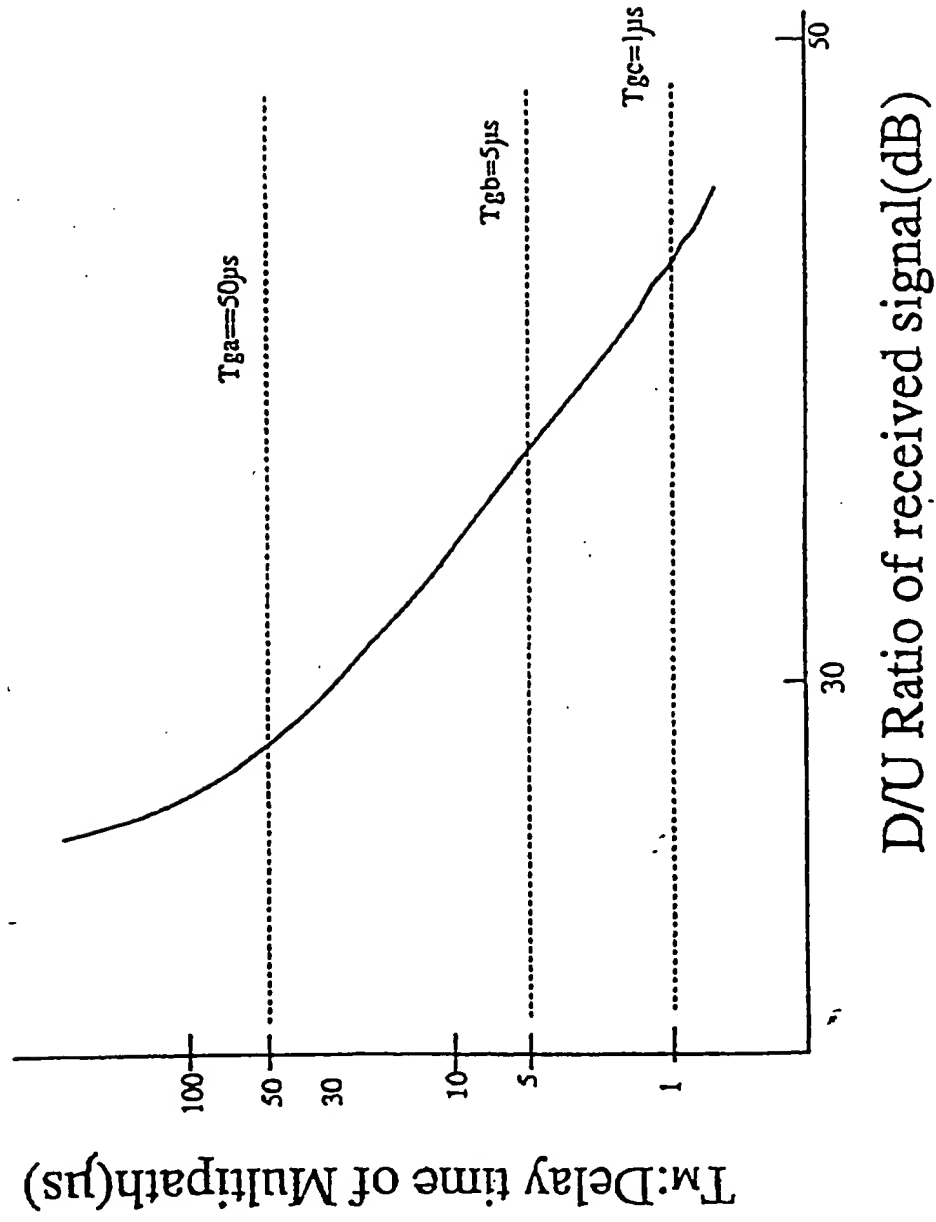


FIG. 147

FIG. 148



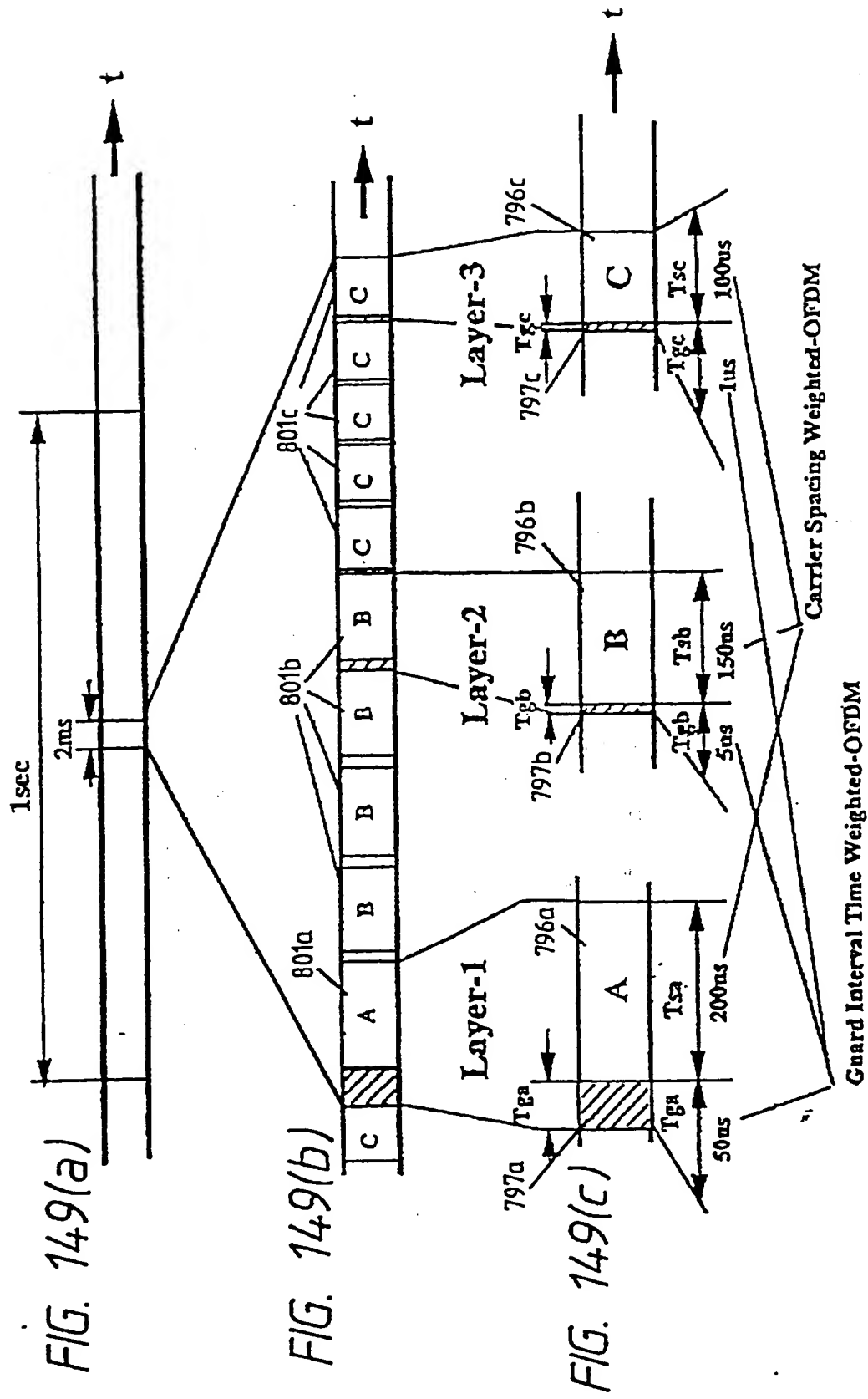


FIG. 150

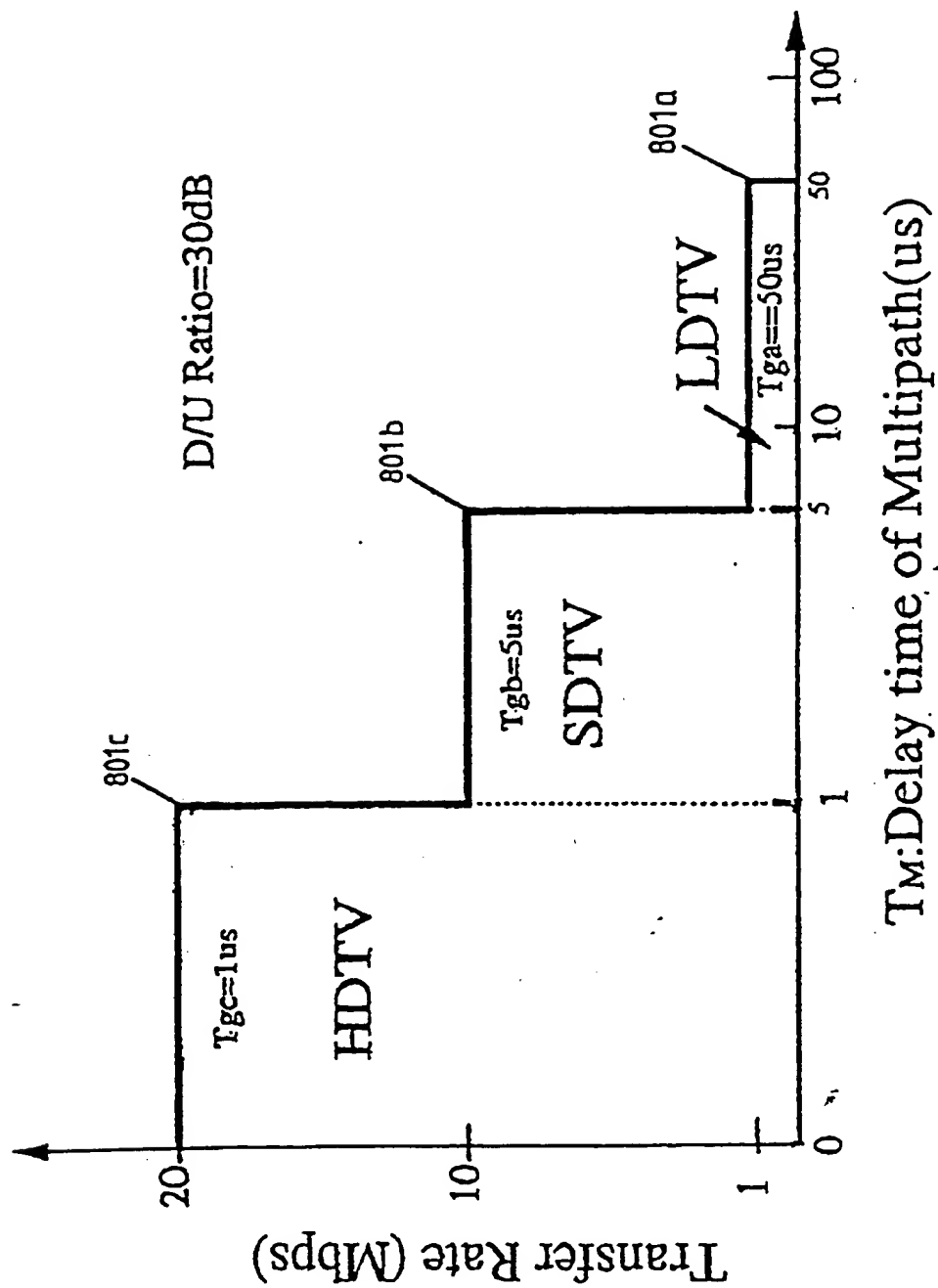


FIG. 151

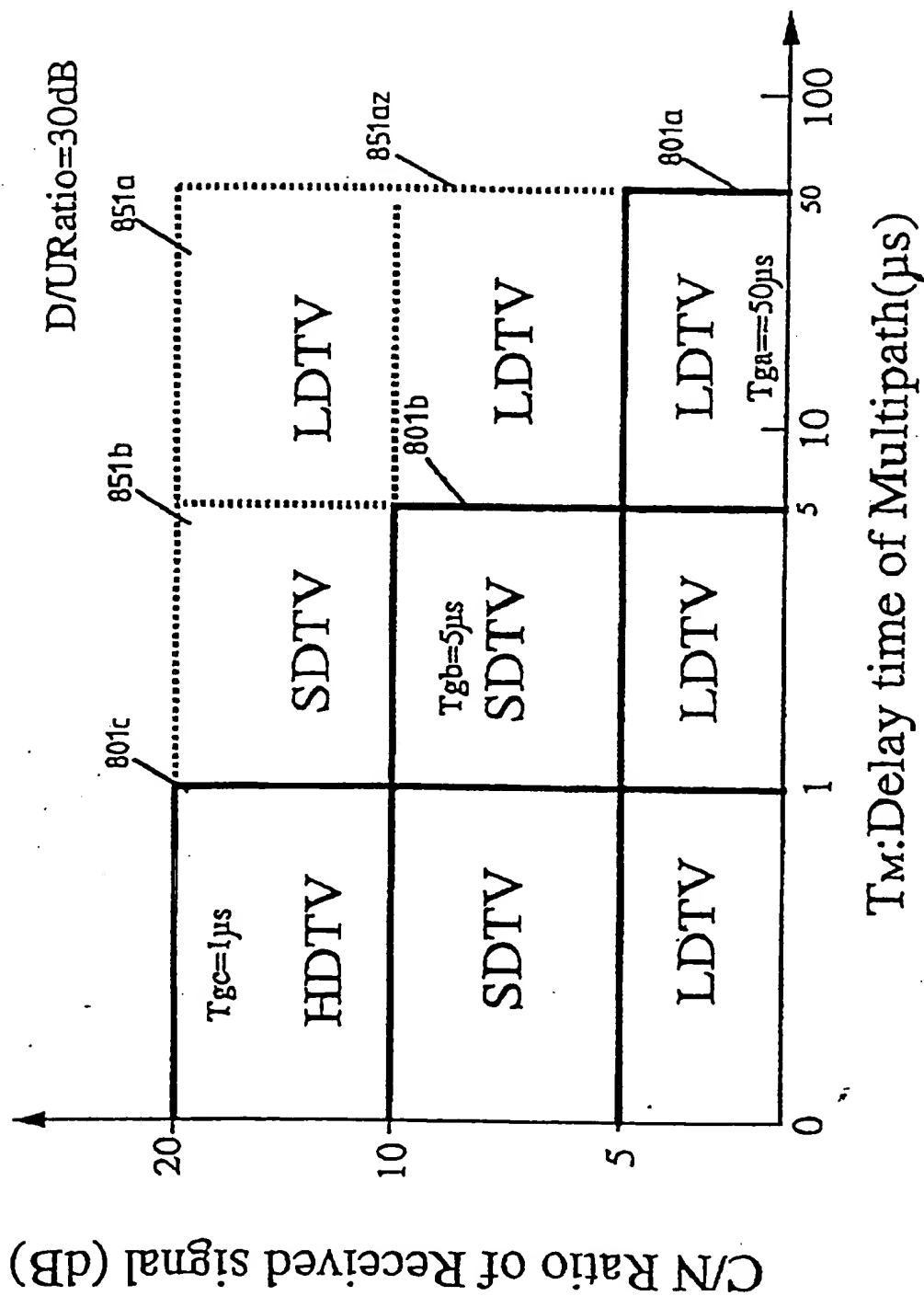
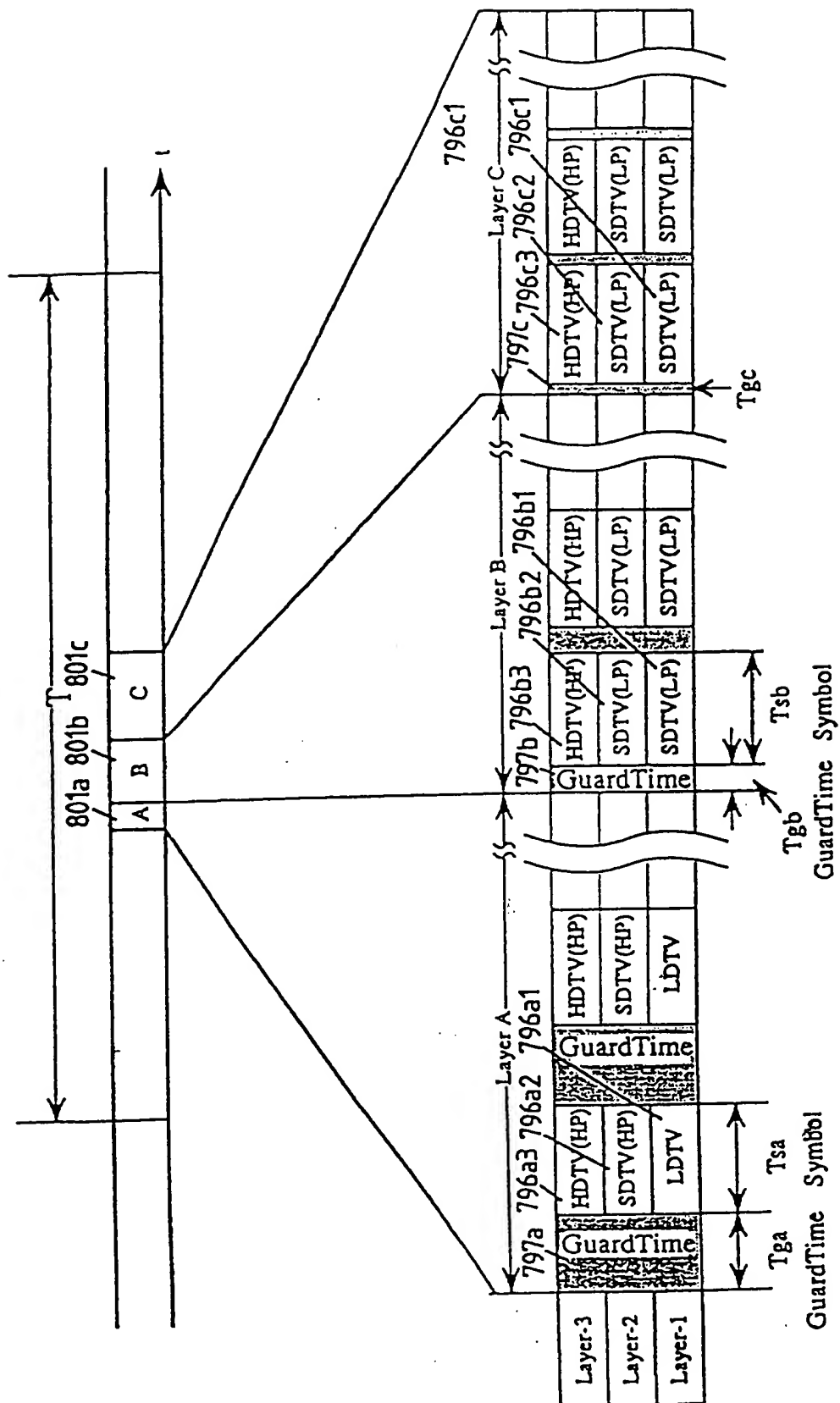




FIG. 152



Transfer Rate (Mbps)

FIG. 153

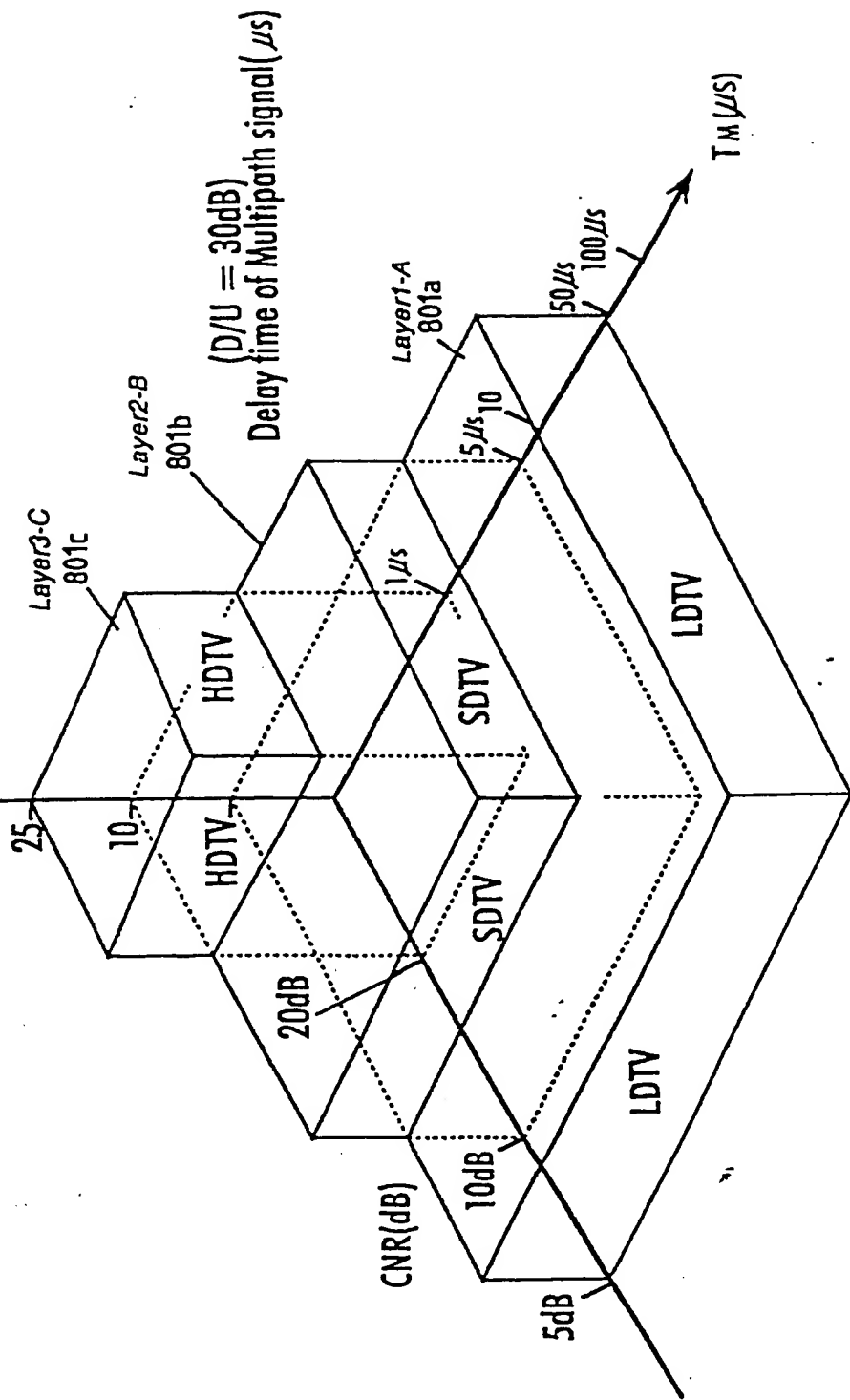


FIG. 154

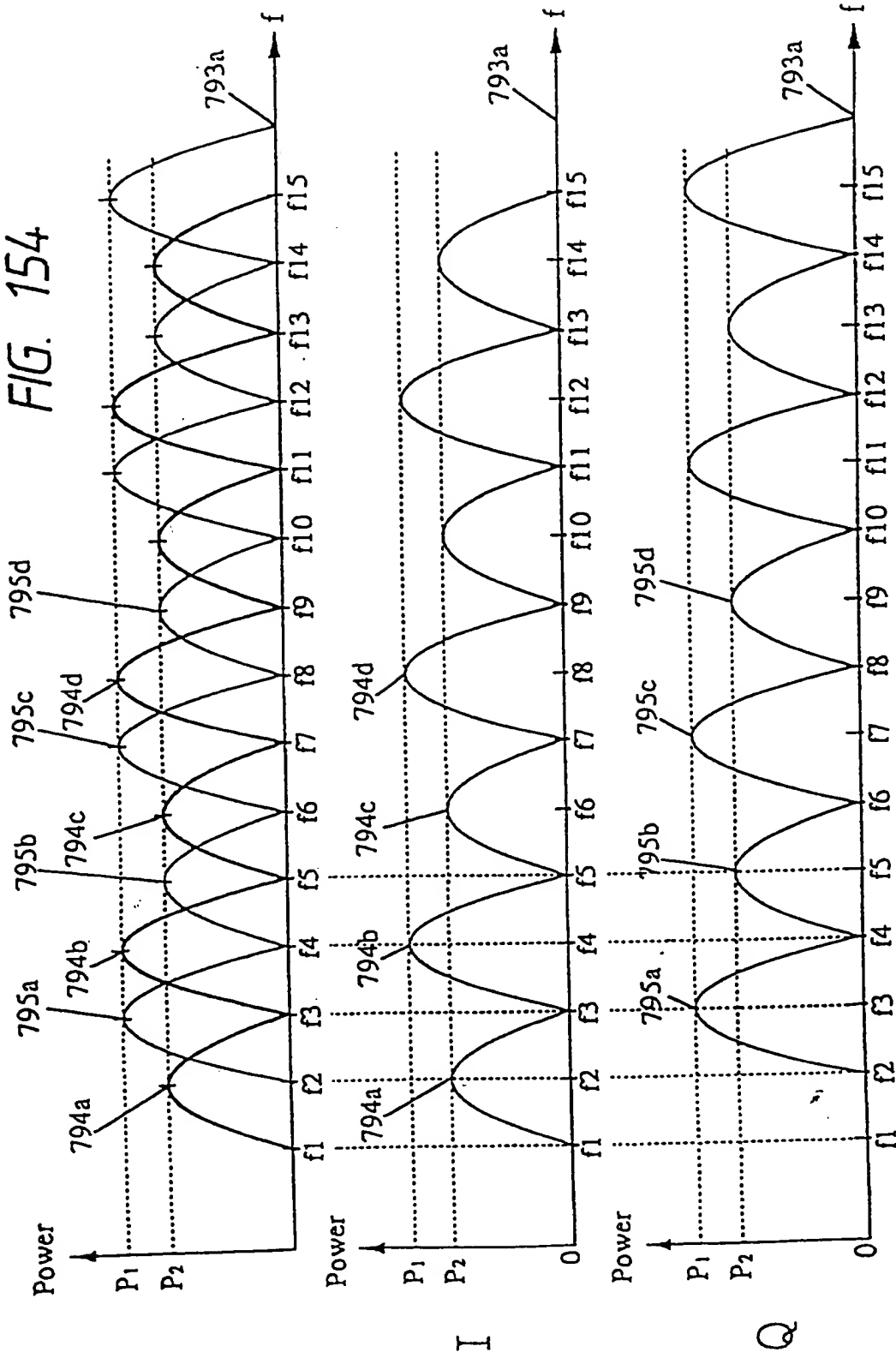


FIG. 155

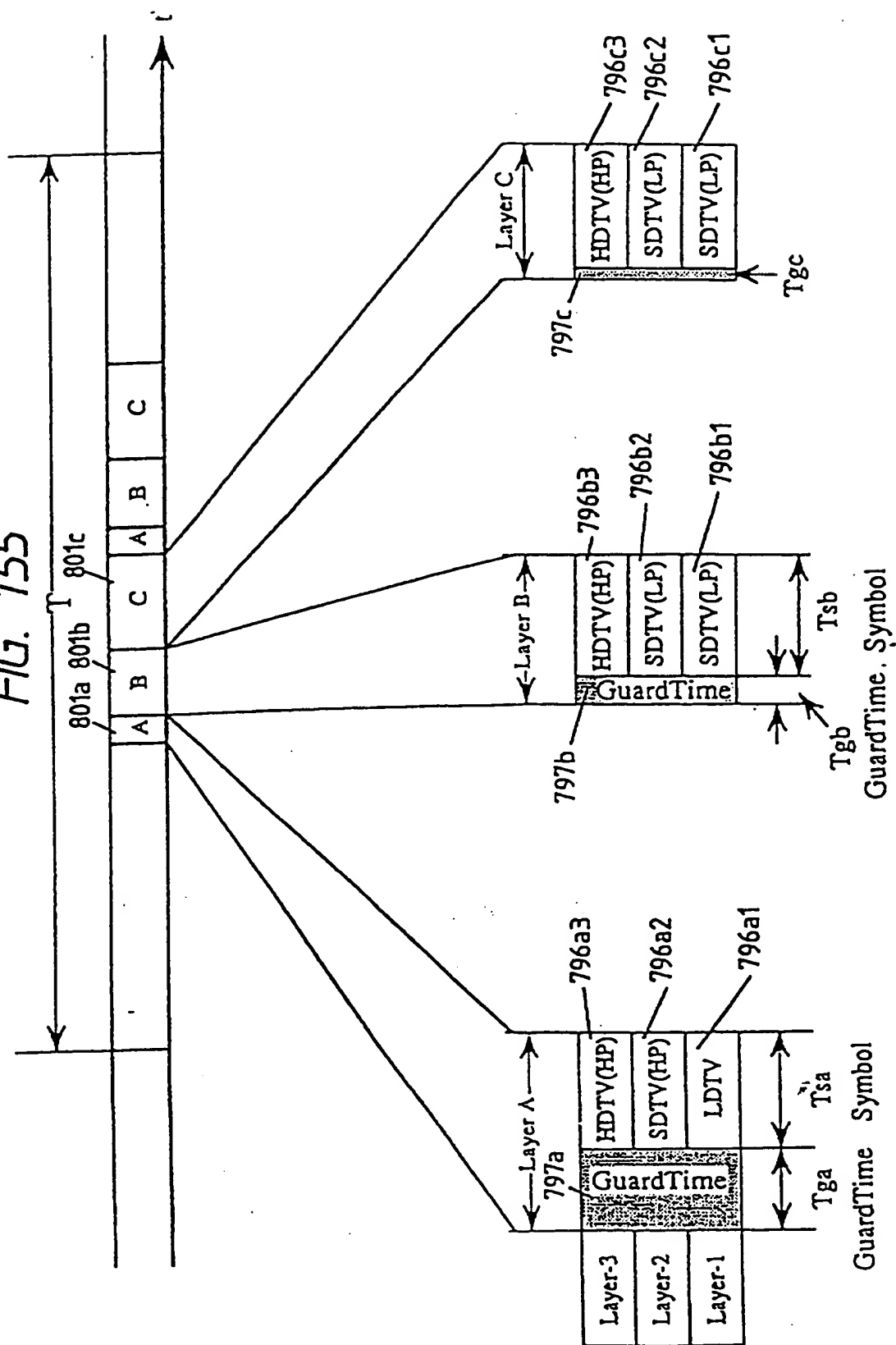


FIG. 156

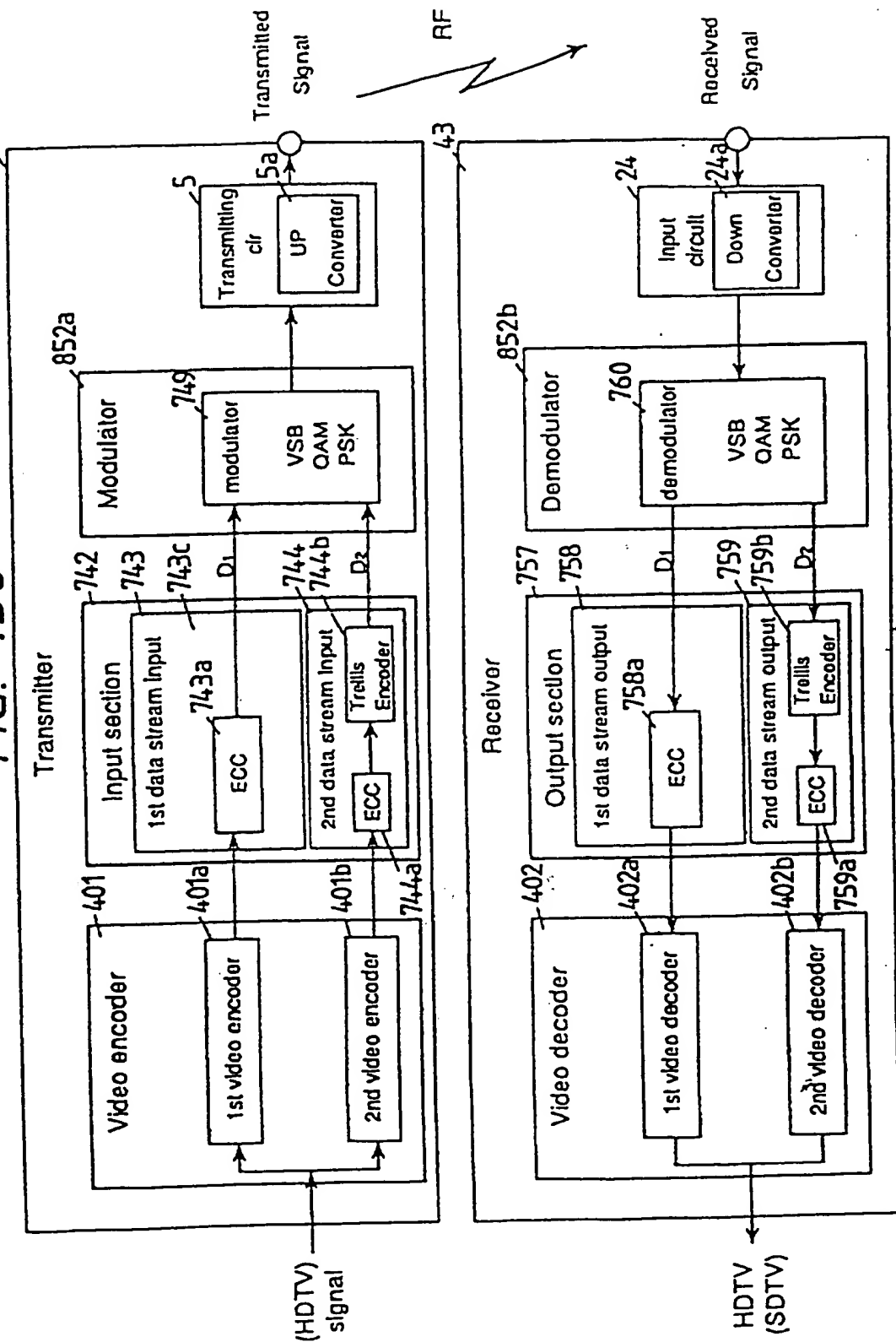


FIG. 157

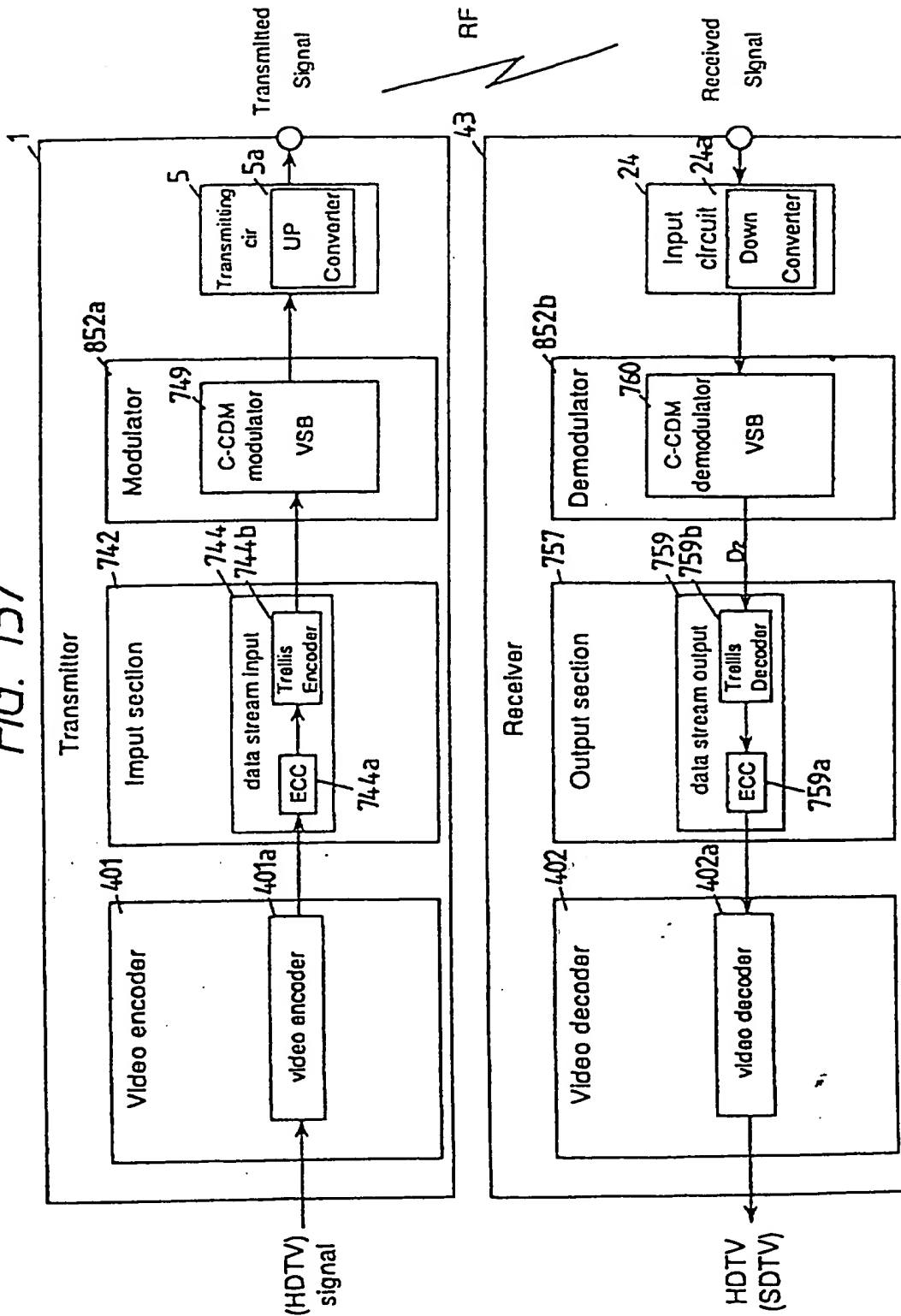
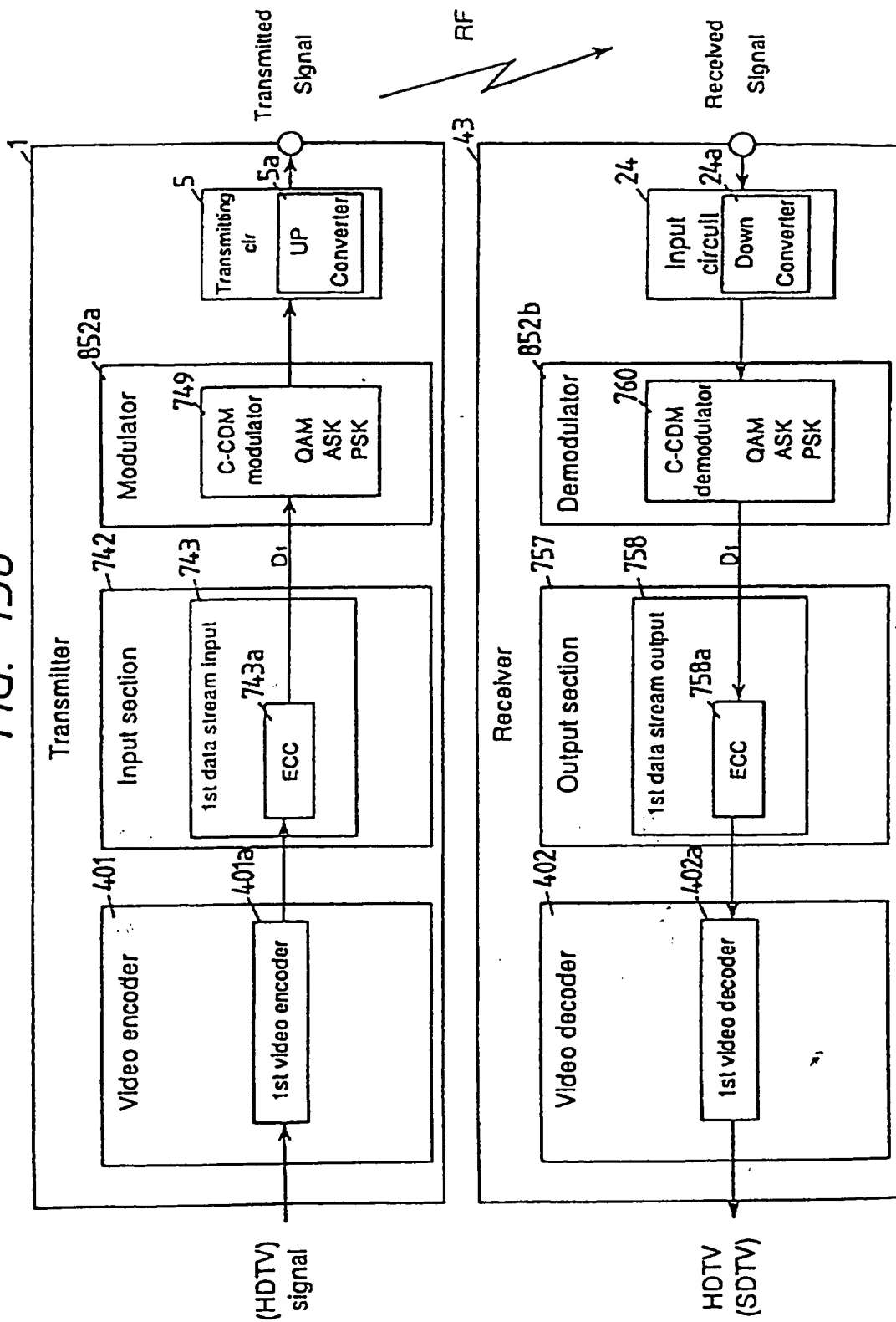


FIG. 158



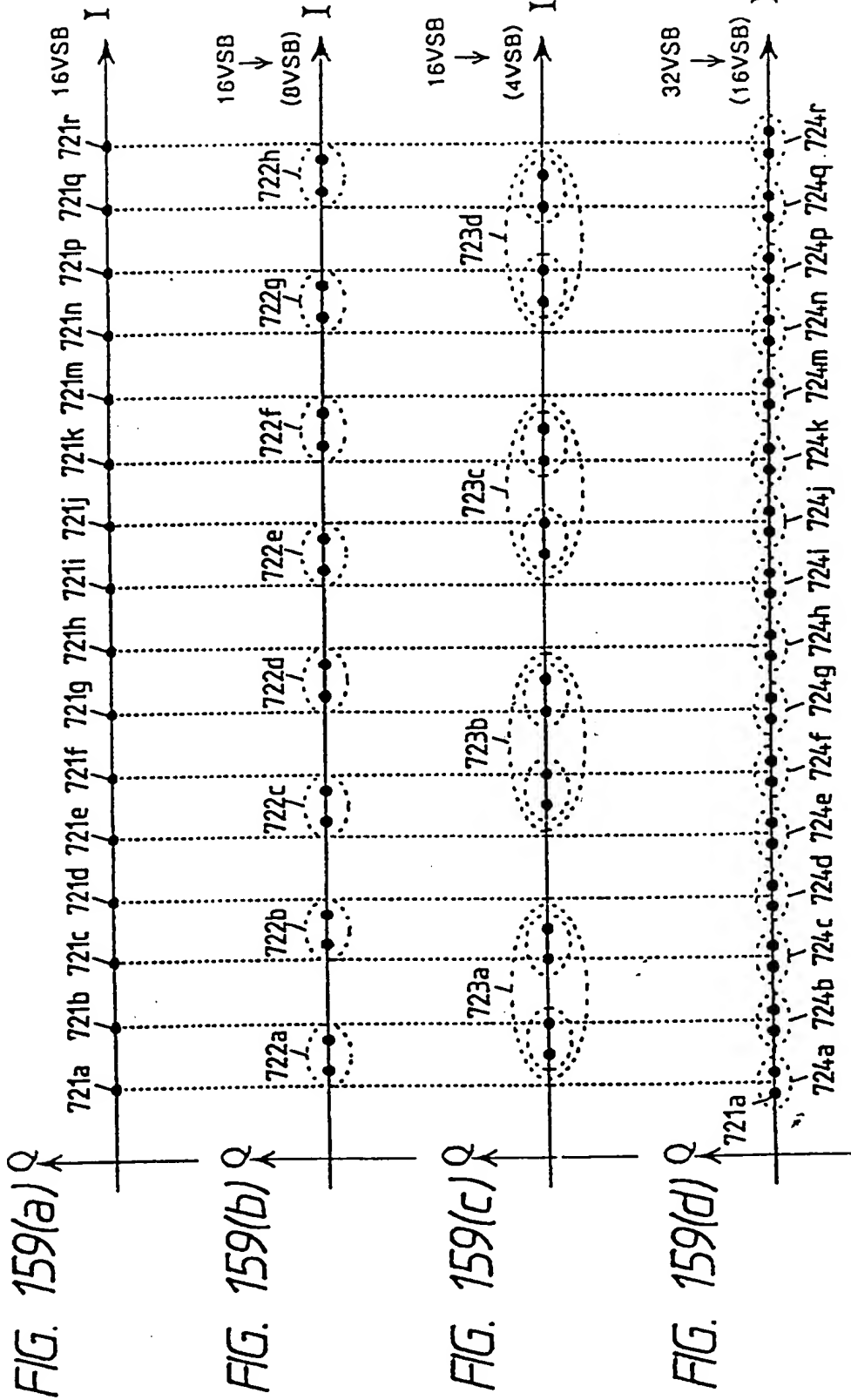




FIG. 160(a)

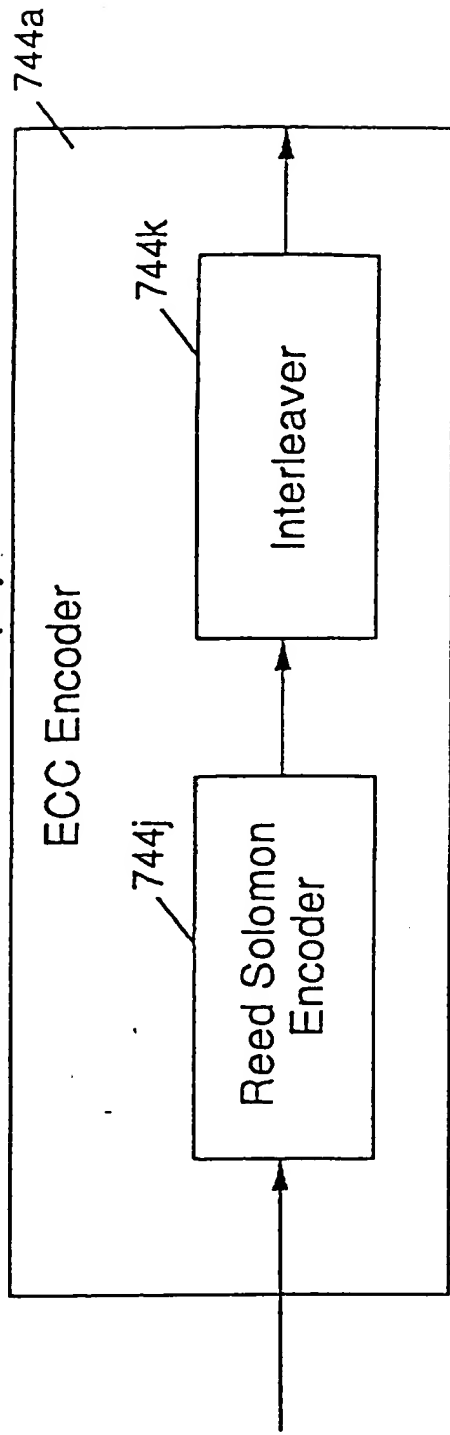


FIG. 160(b)

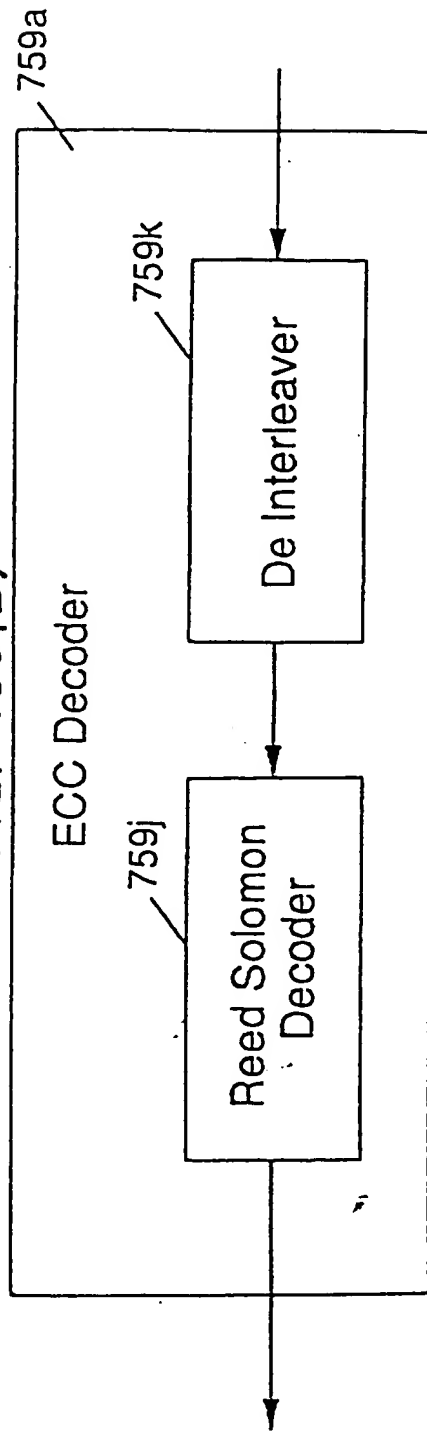


FIG. 161

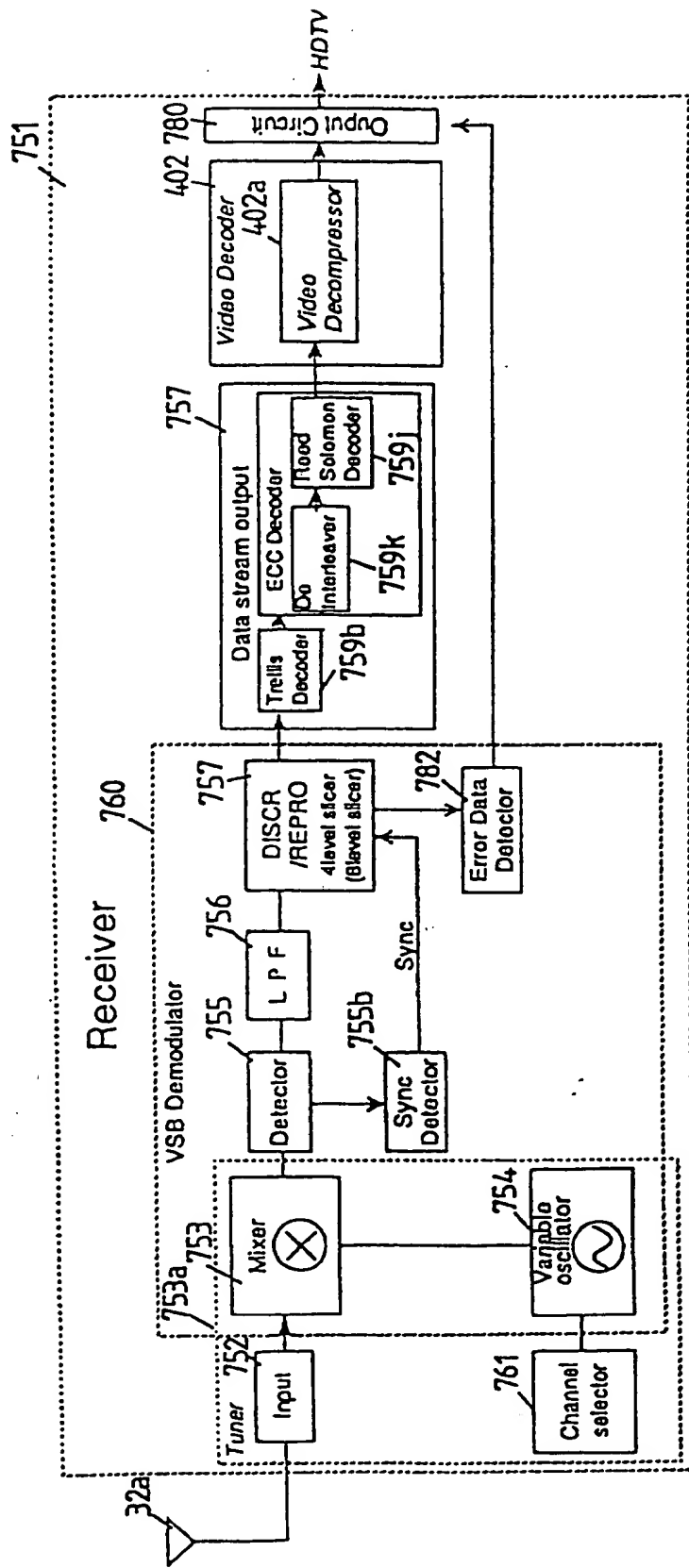


FIG. 162

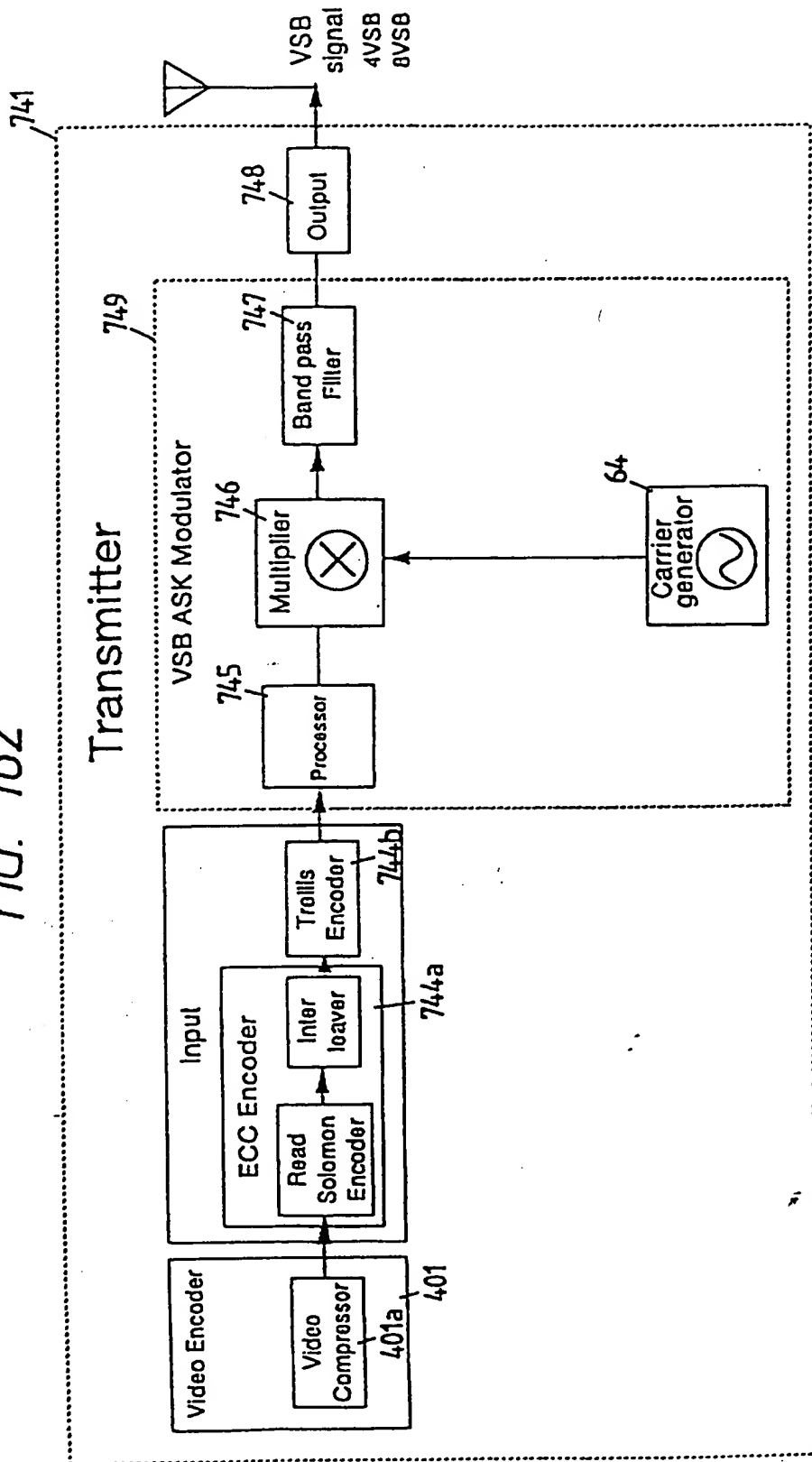


FIG. 163

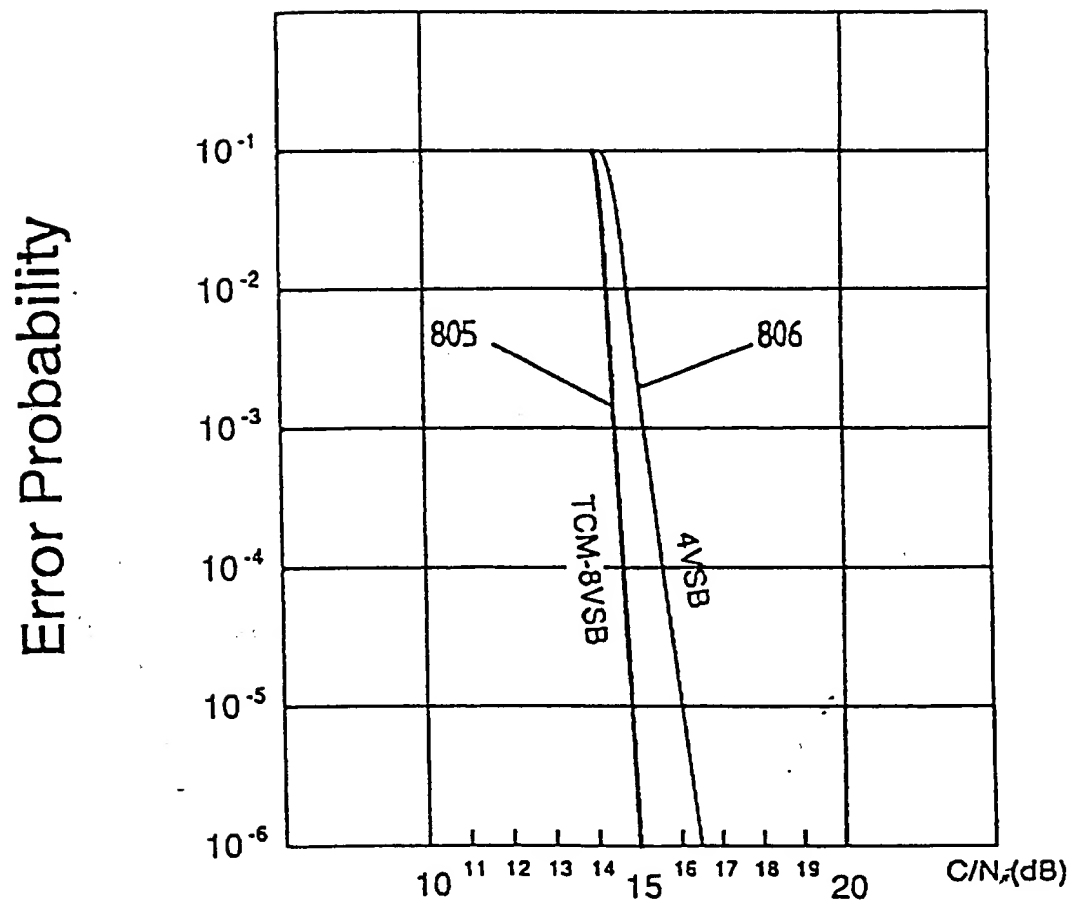


FIG. 164

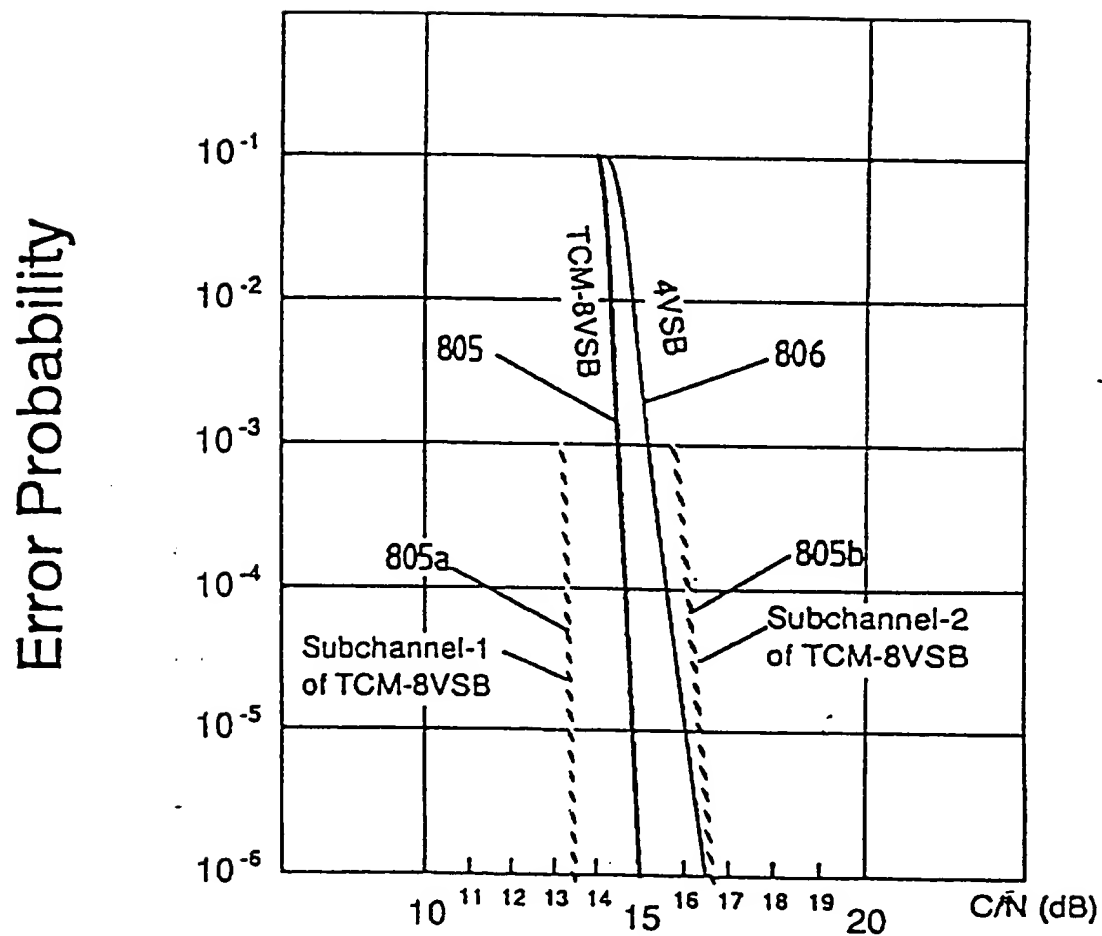


FIG. 165(a)

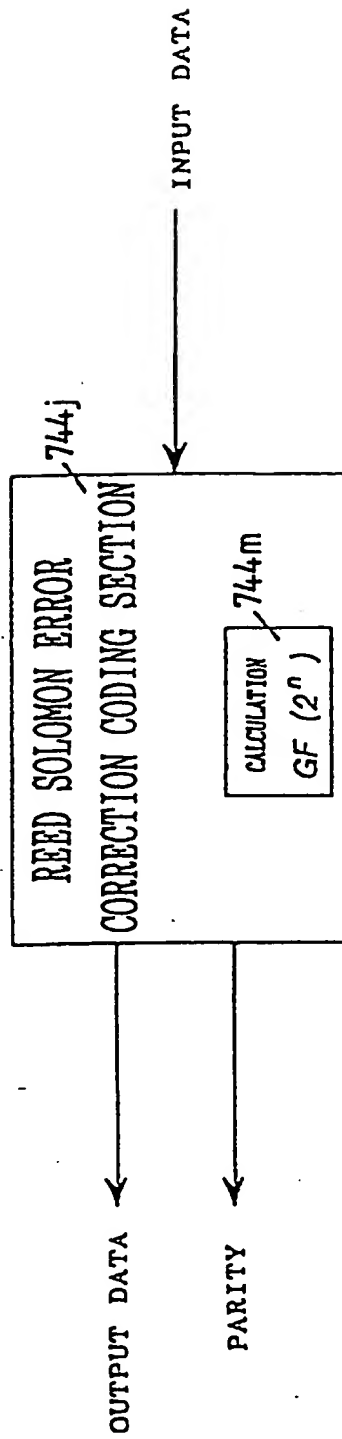


FIG. 165(b)

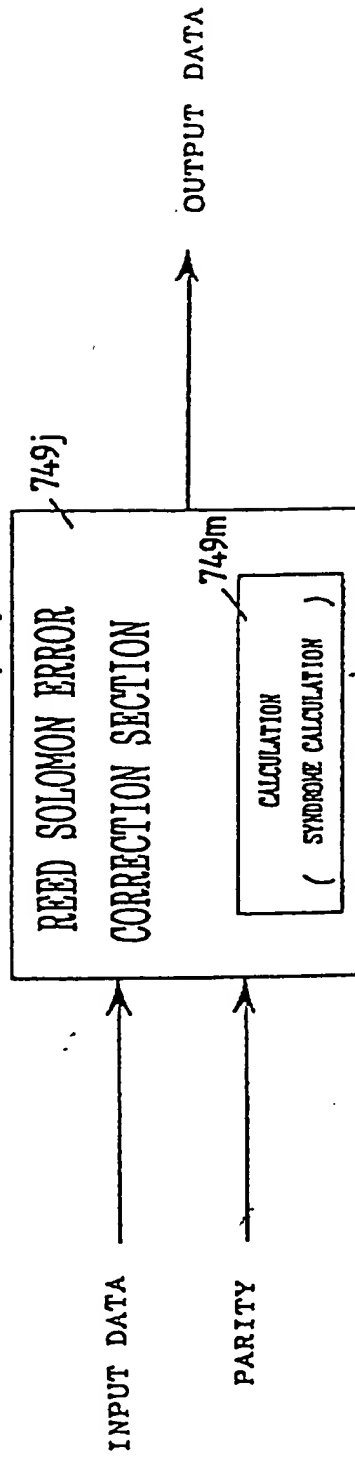


FIG. 166

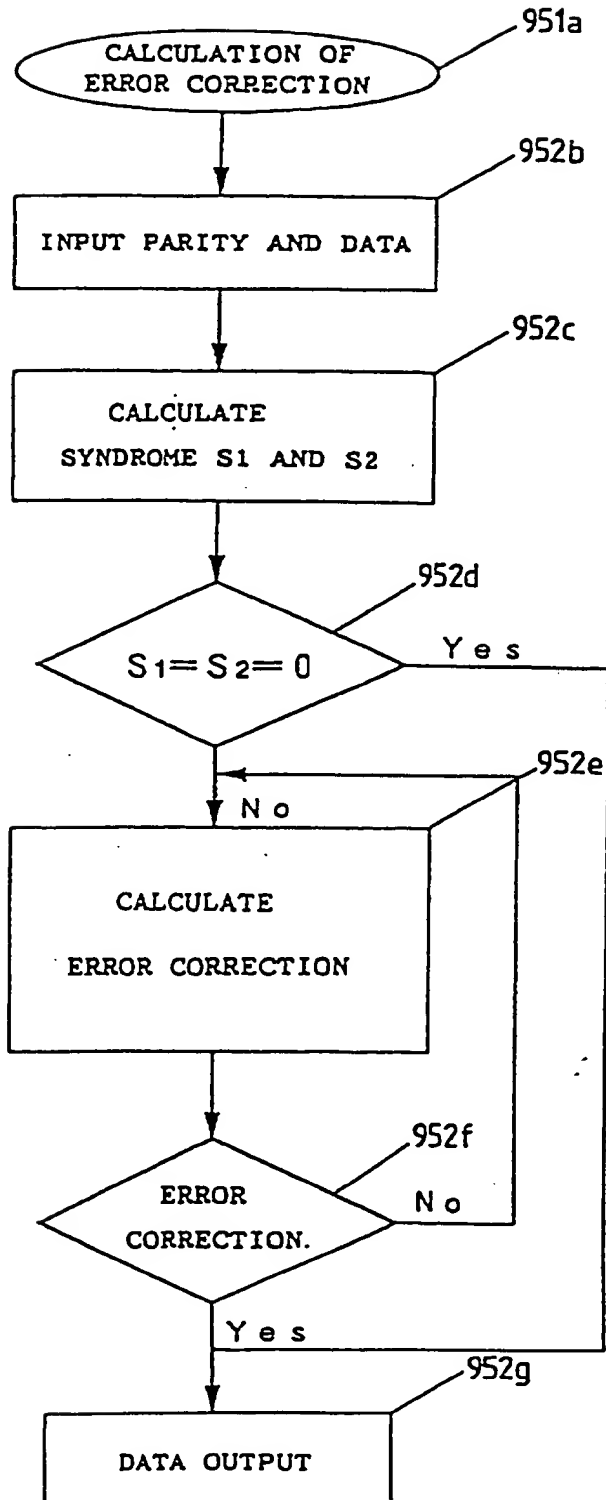


FIG. 167

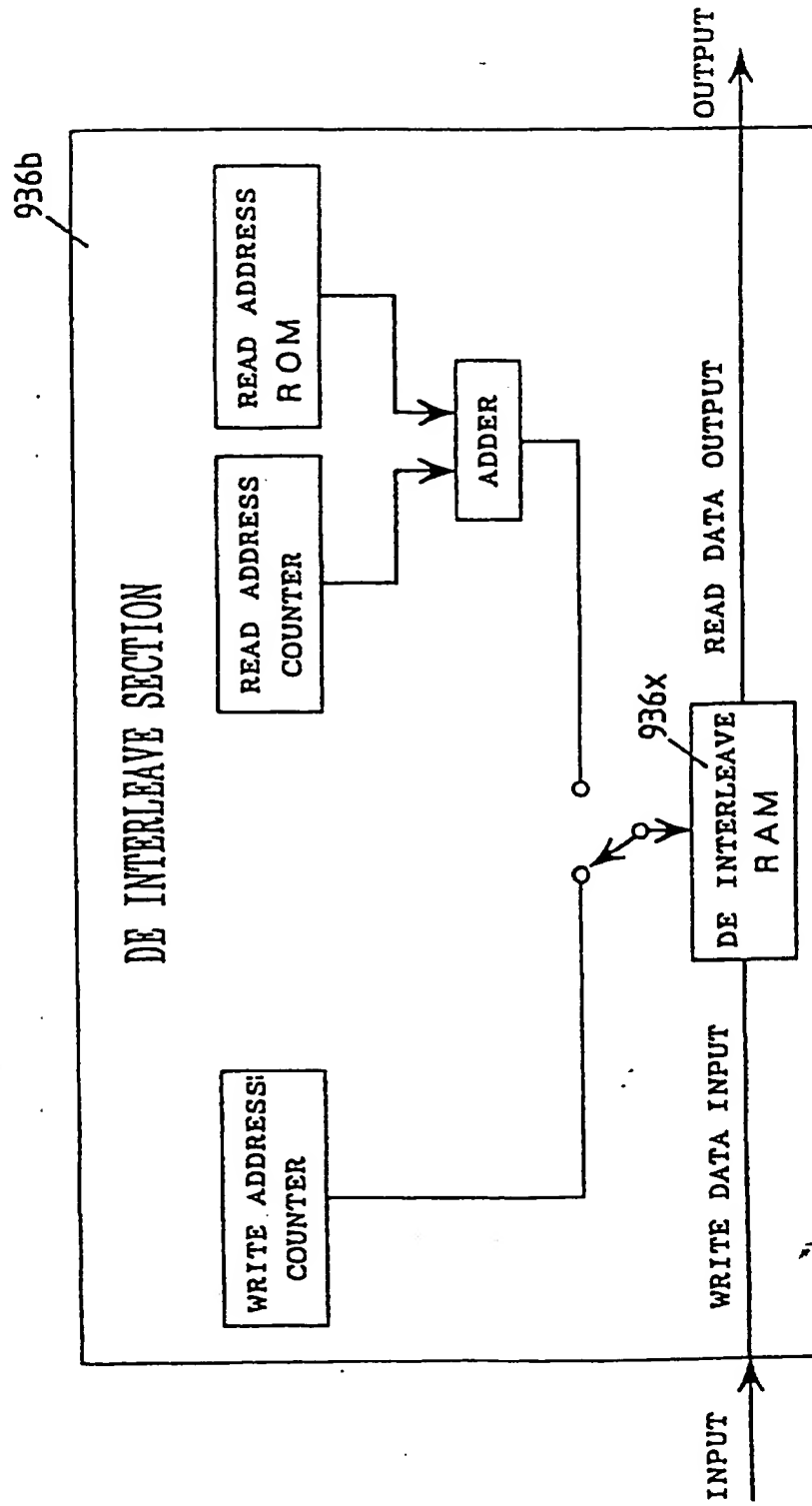




FIG. 168(a) Inter leave Table

|      |           | 1      | 2      | 3      | 4      | 5      | 6      | 7      |      |
|------|-----------|--------|--------|--------|--------|--------|--------|--------|------|
|      |           | Data   |        |        |        |        |        |        | 954  |
| 951b | 1         | A 1    | A 2    | A 3    | A 4    | A 5    | A 6    | Parity | 951a |
|      | 2         | B 1    | B 2    | B 3    | B 4    |        |        |        |      |
|      | 3         | G 1    |        |        |        |        |        |        |      |
|      | 4         | D 1    |        |        |        |        |        |        |      |
|      | 5         | E 1    |        |        |        |        |        |        |      |
|      | 6         |        |        |        |        |        |        |        |      |
|      | C1 Parity | Parity | Parity | Parity | Parity | Parity | Parity | Parity |      |

FIG. 168(b)

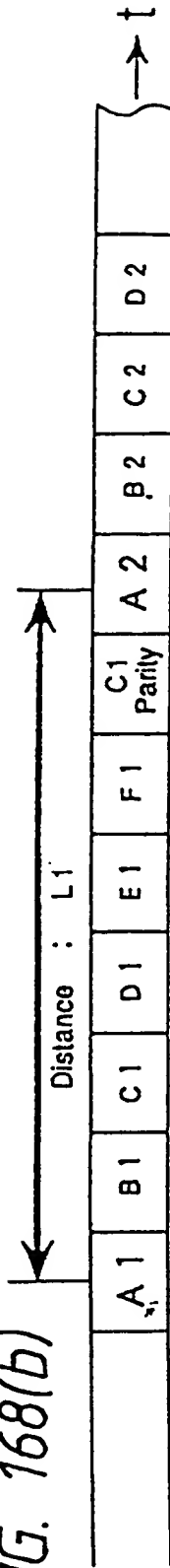


FIG. 169  
Comparison of Redundancy

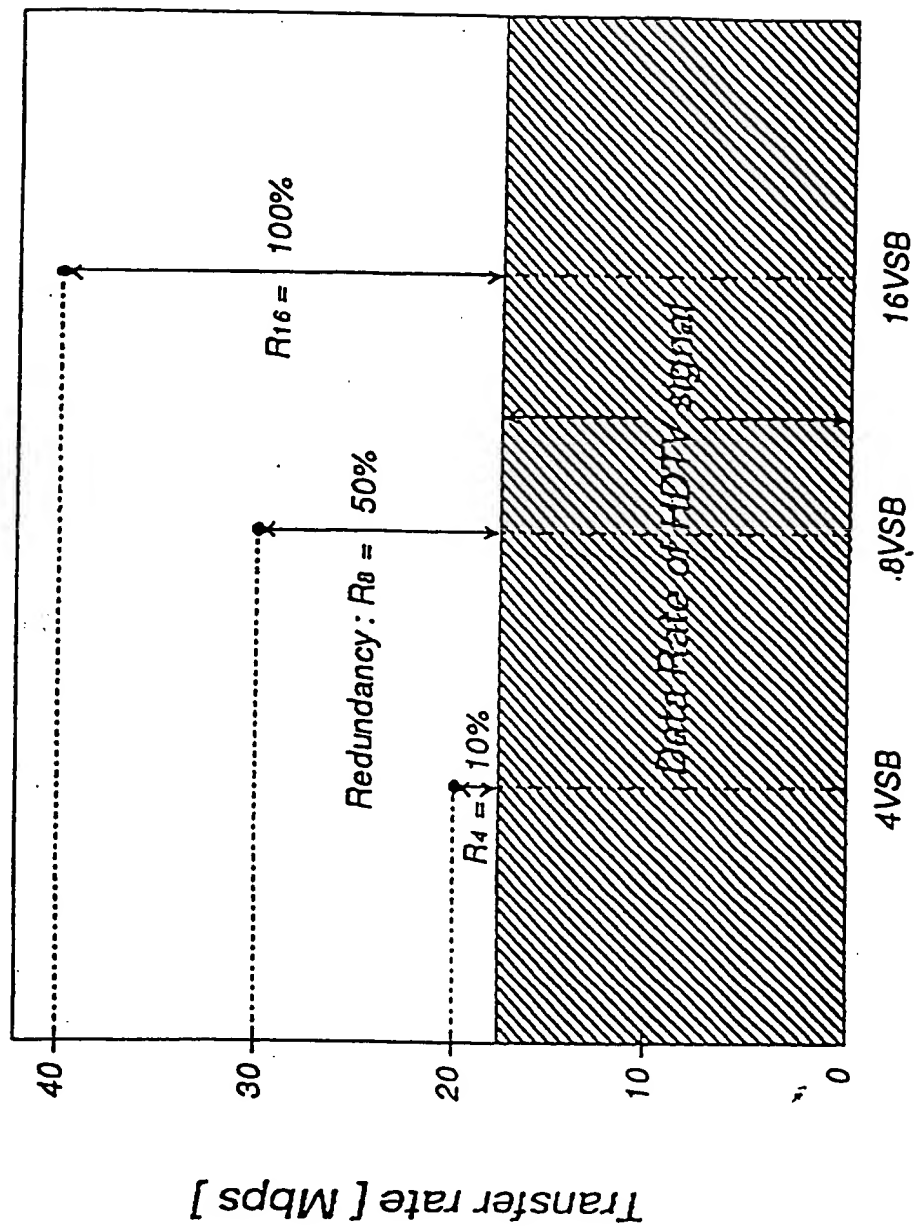


FIG. 170

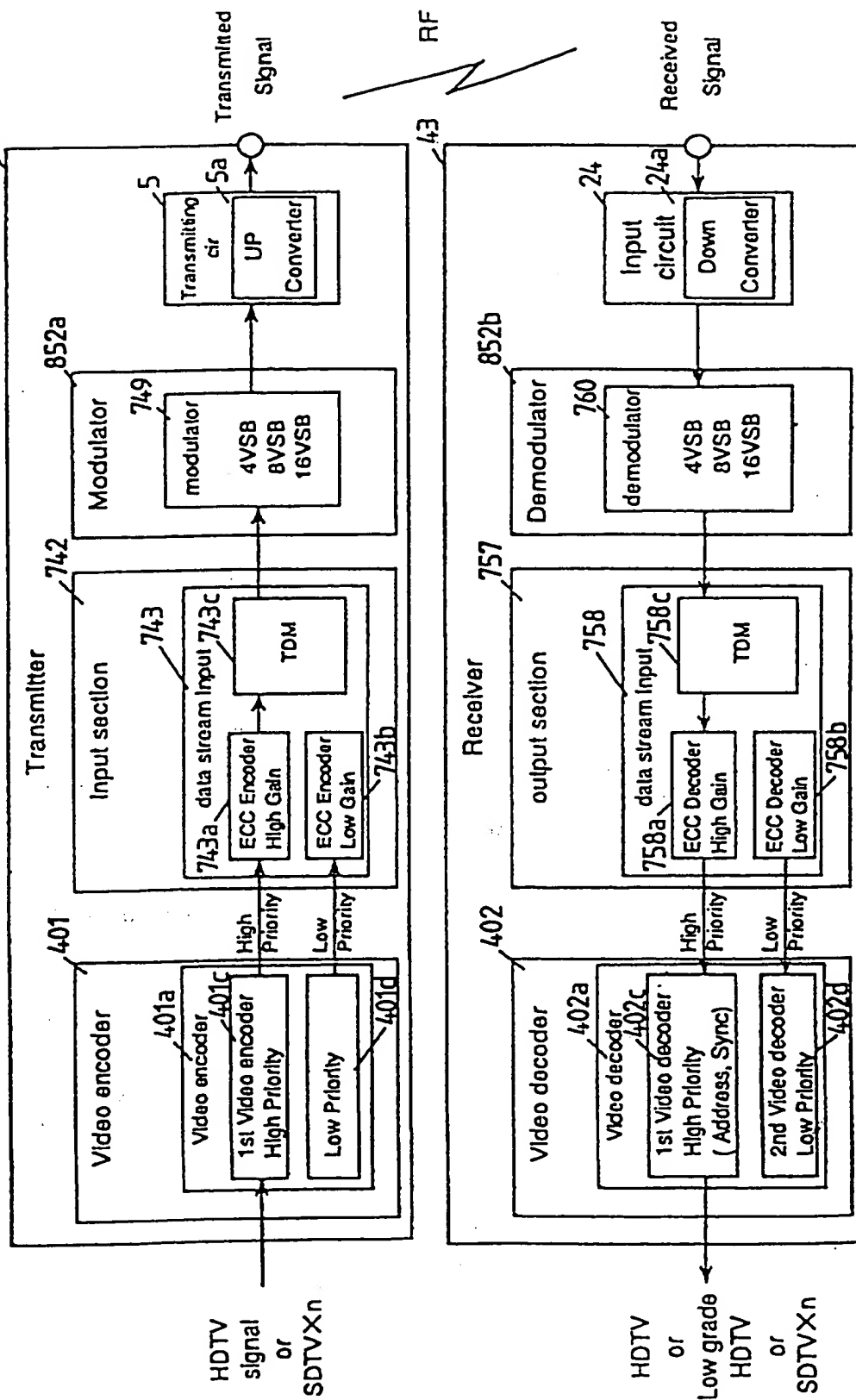


FIG. 171

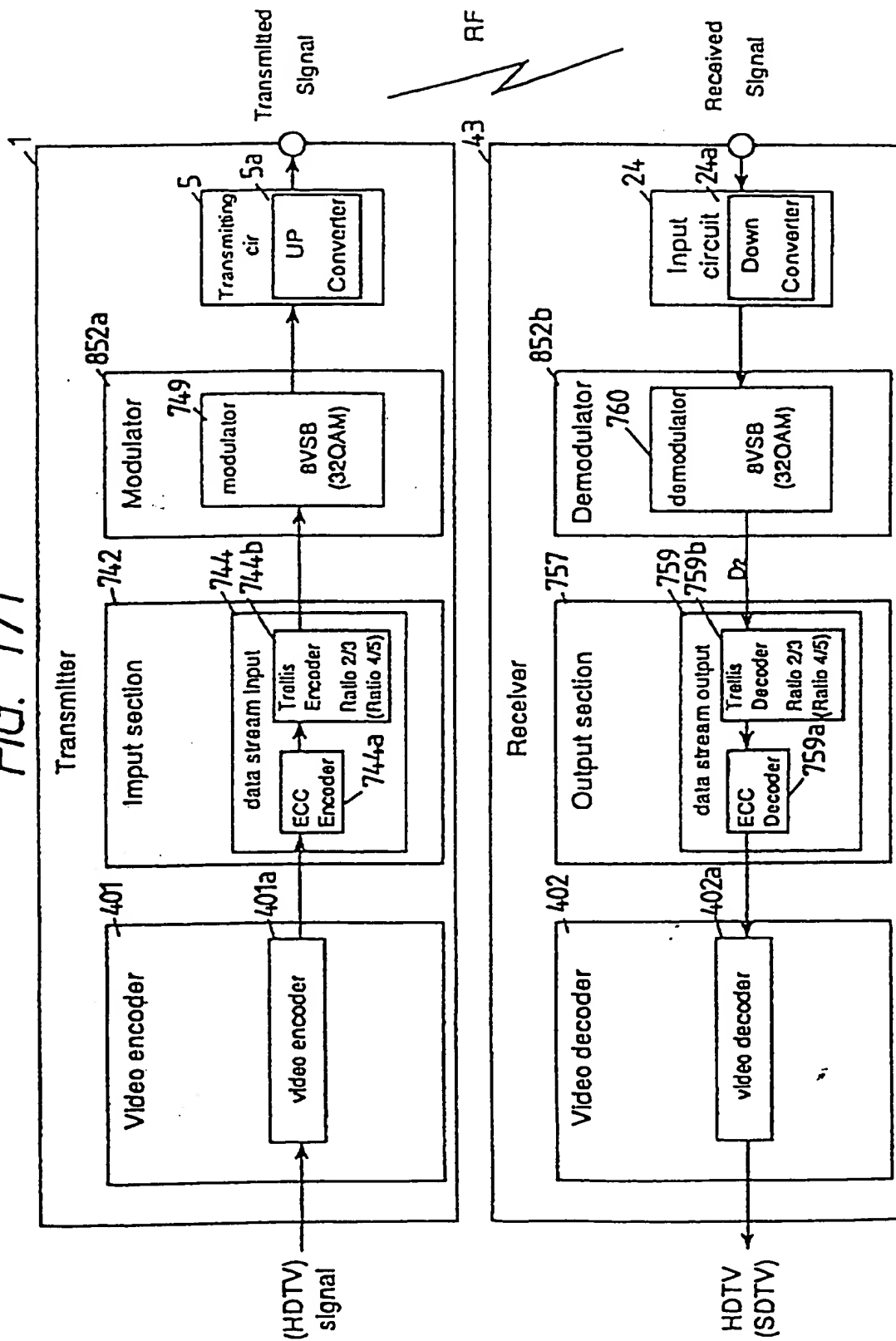


FIG. 172

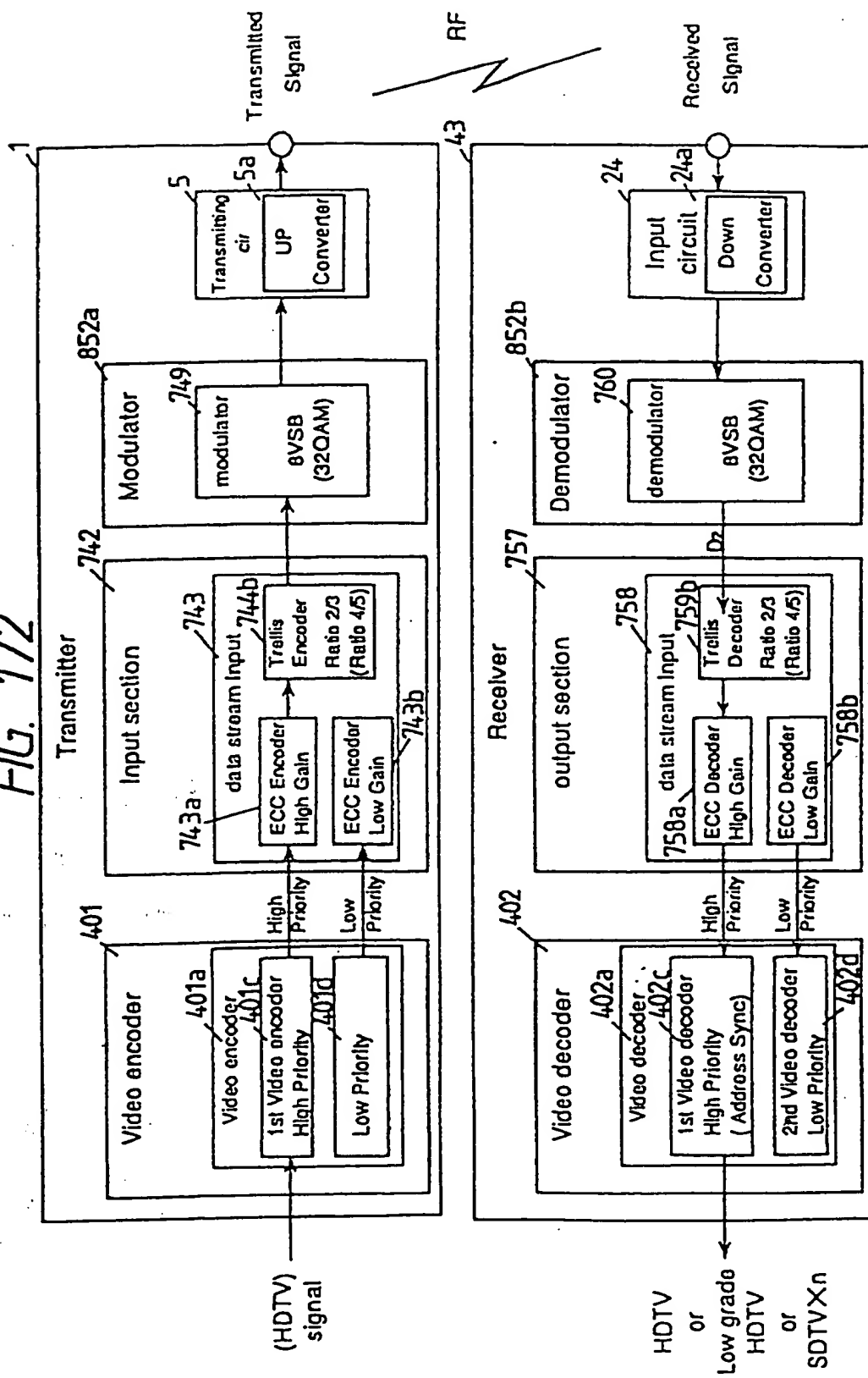


FIG. 173

